

# **Skills Guide**

For AQA GCSE Food and Nutrition

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### **Teacher's Introduction**

This *Skills Guide* has been designed to help you teach the food preparation and cooking skills students are required to learn during their GCSE AQA Food Preparation and Nutrition course.

This resource is split into 12 chapters, each of them describing in detail one of the skills listed in the specification.

### What's included for each skill:

- 1. **Skill overview** a general introduction to the skill, tools and equipment used, and general information to consider prior to a practical session.
- 2. **Health and safety tips** to help your students maintain personal and food safety when working in the kitchen.
- 3. **Detailed instructions** step-by-step guidance to carrying out each skill.
- 4. **Alternative methods** creative and different ways to complete the skill when faced with barriers to completing them using conventional methods (e.g. when you don't have specialist equipment).
- 5. **Images** to show certain processes when preparing and cooking food and help students understand the written instructions better.
- 6. **Activities** at the end of each chapter, to help practise each skill and see how it's used when preparing and cooking food.
- 7. Extra tips ideas that help to make food preparation an easier and faster process.

### This resource also includes:

- **Skills checklist** with a rating system to help your students track their progress and identify skills they may need to practise a bit more!
- **Answers** to support you in assessing students' work; these can also be handed to students for self-assessment or peer-assessment.

### Ways to use the resource:

- → To help students get acquainted with a skill prior to their practical lesson simply copy the relevant pages and ask students to read them at home. This will help them prepare for the lesson and think about possible difficulties they may face.
- → To help students during the lesson the detailed step-by-step instructions will help complete the more complex skills, which may be especially useful for the less able students.
- → To widen and strengthen students' knowledge copy the activity sheets and ask students to complete either during the lesson or as a homework.

We hope you will find the Skills Guide an engaging and useful teaching tool.

January 2019



A web page containing all the links listed in this resource is conveniently provided on ZigZag Education's website at zzed.uk/9289

You may find this helpful for accessing the websites rather than typing in each URL.

### **Free Updates!**

Register your email address to receive any future free updates\* made to this resource or other Food resources your school has purchased, and details of any promotions for your subject.

\* resulting from minor specification changes, suggestions from teachers and peer reviews, or occasional errors reported by customers

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# Skill 1: General Practical Skills (Ove

Although this might seem easy, it is extremely important to pay attention and maskills to succeed in cooking. Correctly measuring ingredients and cooking for the key to success. A good cook will know what techniques, equipment and ingredient adjust cooking times, and how to judge and modify sensory properties of food to

### Equipment

### For weighing and measuring:



### Kitchen scale

Electric (sometimes not) scale fitted to requirements of cooking. The scale can commonly weigh the food with 1 g accuracy.

### For preparing and cooking:



# Round cake tin (with spring form)

Usually coated with non-stick layer, used for baking sponge cakes (as more liquid batters would leak out).

### Measuring jug

Plastic or glass jug with a scale drawn on the side to indicate amount of liquid in it, usually in millilitres and ounces.

### For testing readiness:



### Temperature probe

Special thermometer adapted to high temperatures ich allows the trae ure inside of the trae to be checked.

### Health ar 🎏 ety (Tips to remember!)

- Remember to disinfect the temperature probe before and after using it to contamination.
- When using a glass jug, make sure to place it further from the counter edepotentially harming you and others.
- When using a kitchen scale, make sure to tare (zero) it after placing the
- Use a tray to keep your utensils on, and another one to keep the ingredient avoid mess and confusion during cooking.



## Skill 1a: General practical skills – Weigh a

You will notice that various recipes may give different measurements – usually umetric system or imperial system. How do these work?

Imperial unit	ı
1 fluid ounce	28
1 pint	4
1 gallon	A
1 pound	45
1 stone	6.35

Note that American recipes may use d'if reconseaurements, e.g. 1 US ounce equation and always double-check of ere the recipe comes from! Also, simplified means the UK and other count of the example, a 'cup of water' in Great Britain means would be 2

### Instructions for weighing

Correct proportions are often crucial for your culinary success. Some recipes will specific amount of an ingredient. If a very precise amount is given, you might need the ingredient – this usually applies to powdery foods like flour or sugar.

### To correctly weigh the food:

- 1. Turn the scale on.
- 2. Put an empty bowl on the scale.
- 3. Tare (zero) your scale by pressing the 'Tare'/'Zero' button the scale should now show 0 grams. This is extremely important, as the bowl is not a part dish, and you don't want to include the weight of the bowl in your measurements.
- 4. Pour or place your ingredients into the bowl until you obtain the desired
- 5. If you accidentally put in too much, scoop out the excess with a spoon to
- 6. Place the weighed food in another bowl before adding the next ingredie put in too much and separating the two could be difficult.

### Alternative methods

If you don't have a kitchen scale, you might need to use conversion tables or sime examples given below.

Ingredient	
A teaspoon of mayo	15 g
A teaspoon of butter/margatives	5 g
A teaspoon of oil	4 g
A tablespo 🛂 nega	25 g
A tablespo wutter/margarine	15 g
A tablespoon of oil	10 g
A 250 ml of oil	215 g
A 250 ml of cream	240 g
A teaspoon of flour	6 g
A tablespoon of rice	15 g
A teaspoon of sugar	5 g
A tablespoon of breadcrumbs	10 g
A tablespoon of quinoa	15 g



15 g
10 g
12 g
10 g
14 g
65 g
120 g
180 g
170 g
130 g
170 g
∠0( g
120 g
150 g

# Instruction in measuring

To measure food ingredients you will need a measuring jug or spoons.



**Measuring jugs** are usually used to measure liquid water or oil. It usually has two scales – one metric, easily adjust the amount of liquid no matter wheth litres.

**Measuring spoons** are usually used to measure *small* amounts of powders, like baking soda or salt and some liquids, like vanilla essence. They are labelled with the correct volume so your only concern is to use the correct spoon.

### Alternative methods

A heaped teaspoon is usually equal in volume to a levelled measuring teaspoon, have the measuring one.



If you need a specified ame a "quid, first read the volume of the package. It has to be clearly in the label. Single-portion foods like cream or yogurts car the easily divided into smaller ones. Use a transparent juice bottle and do not into equal portions — e.g. measure the bottle's height with a ruler, divide by four or five and mark it to divide into equal measurements. This way you will obtain 200 ml/250 ml portions.

Also, notice that margarines and block butter usually have measuring 'rulers' on the side to easily split them into 50 g (or equivalent) pieces.





## Activity 1.1: Are you close enough?

### Task 1

Let's start with something easy – apple crumble! Split into pairs. Here's what you

### For the crumble:

- 150 g plain flour
- 85 g brown sugar
- 100 g unsalted butter
- pinch of salt

### For the filling:

- 225 g peeled and cored applain
- 25 g brown sugar
- 0.5 t<u>abl</u>espc າ ບຸກ ໂຄວຍr
- pi 1 cir ₃umon

Cut the butter into cub flour, salt and sugar a resembles breadcrum

Dice the apples into 1 and cinnamon in a large baking dish and spoor mixture. Bake for 45 n

# What measuring/weighing methods and utensils did you use and why? Set up a simple tasting panel to compare your crumble with that of your classmat difference? Why / why not?



### Task 2

Now that you've covered the basics, it's time to try something harder. What do you pairs again – here's what you will need:

- 100 g icing sugar
- 100 g ground almonds
- 2 egg whites, medium
- 50 g golden caster sugar
- 3 drops food colouring gel
- 1 ml vanilla extract

Whisk egg whites until whisk in the sugar. Sift and fold in. Add the comix. Spoon the mixturonto a lined baking trathen bake for 15 minus

What measuring/weighing methods and utensils did value and why? Do they making apple crumble?
Set up a simple tasting panel to compare your macaroons with those made by your
differences? Why / why not?

### Task 3

Get into pairs once again. In each pair, choose one for 'inge lient (e.g. flour, summasure it using different methods — e.g. you far old take a picture to create your own tablespoon, etc. Record the weight/your each take a picture to create your own





## Skill 1b: General practical skills – Prepare ingredi

The preparation of ingredients and utensils is an important part of *mise en place* at hand, reducing the risk of running out of ingredients, having to run around the and helps to organise your work and shorten the cooking time.

### Instructions for greasing and flouring

Covering the surface of a baking tin or other dish is important, as it helps to avoid and helps to remove a cake, muffin or other baked product from the tin after baken

- Greasing is applied to cakes and other dishes which in't contain much or yeast cake, such as Italian panettone.
- Greasing is NOT needed for high-fat a duty like shortcrust pastry or put sufficient fat content, so your to it to the sides.
- Baking tins and for a property or silicone usually don't need to be greased sticked it is the easy to remove the cake from it.

Usually tins reased with oil, lard or butter.

### 1. To grease with oil:

- Choose a refined oil which can be safely heated to high temperatures, e.g. sunflower or canola oil.
- Pour a tablespoon into the baking tin and brush evenly over all surfaces.
- This is best for dry, tough doughs, such as pizza.

### 2. To grease with butter:

- Cut a piece of butter and smear inside of the tin.
- This is best for 'wet' cakes, such as sponge.

### 3. To grease with lard:

- Cut a piece of lard and smear evenly inside of the tin.
- This is best for savoury recipes, such as pâté.

### Extra tip:

If you want to keep your hands clean, hold the piece of butter or fat through a pier foil/paper in which the fat (butter, lard, etc.) was wrapped in.



Additionally, some recipes require the especially important when baking liquidate. Sprin'in an affour inside the godin ctans apping on the bottom to a ayer of flour should be very thin the tin upside down and tap on the bottom to be a special to the special transfer of the special transfer of

Do **NOT** grease or flour the form when sponge. When rising, the cake will still will stabilise it and help to maintain the simply cover the bottom of the form when the simply cover the bottom of the simply cover the simply cover

### Alternative methods

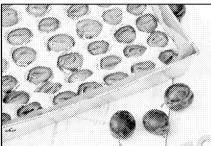
Instead of flour, you can use breadcrumbs, fine oat bran, semolina or manna-croalmond flour or desiccated coconut.



### Instructions for lining

Lining the tin with baking paper will help to remove the cake from the tin and manual The paper has two sides, one of which is usually waxed – make sure this is the sure your cake, as the non-waxed surface may stick to it. A tin lined with paper does in

### To evenly line a square or rectangular form with paper:



- 1. Turn the form upside down.
- 2. Cover the form with paper and cut a she whole form.
- 3. Place the paper on top of the form and wanted to make apper box.
- 4. Turn the farm sin and put your 'paper od to' ep them clean and protect for honer.

### To evenly line to a round tin:

- Det round circle from the bottom of the tin.
- 2. Covere tin with a square piece of baking paper, waxed side up.
- 3. Attach the round circle to the bottom.
- 4. Cut all the excess paper around the edges.

As this method covers the bottom only, you might need to grease the sides of the to detach the cake from them.

### To line the walls of a round tin:

- 1. Spread the baking paper.
- 2. Measure the circumference of the tin (with a measuring tape or simply a piece of string).
- 3. Measure the height of the tin.
- 4. Cut a piece of paper which is as long as the circumference and 2–3 cm broader than the height of the tin.
- 5. Line the sides of the tin, folding the extra paper over the edge to prevent food from sticking to it during rising.

### Extra tip:

To line a muffin form simply use paper baking cups!

### Alternative methods

Instead of baking paper, you can use aluminium foil. Make sure the shiny side factor adjust the cooking time slightly, as the aluminium foil of sit ates heat and may transferred to the food.

### Extra tip:

After blind-baking s'and pastry for quiche, cover the sides with aluminium for burning what filling is cooking!







# Activity 1.2: Ready, steady, cook!

### Task 1

Below is a list of various dishes. Describe how you would prepare the baking dish your choice.

Dish	How to prepare the baking dish	
Shepherd's pie		
Swiss roll		
Meat pâté		
Croissants		
Quiche Lorraine		
Profiteroles		
Lasagne Bolognese		
Panettone cake		

### Task 2

Some foods, like steaks and burgers, can be both dry-fried and shallow-fried. Preone of them and shallow-fry the other one. Compare the results.

	Cooking time	Appeara	Texture
Dry-fried burger			Texture
Shallow-fried burger			

# 



## Skill 1c: General practical skills – Select and adj

### Instructions for adjusting cooking time

Cooking time is very important, especially to obtain the right texture of the food

- The main rule to follow is to lengthen the cooking time according to the
  if it's a steak, a cake or an egg. The larger/thicker the food, the longer the
- Read the recipe (or cooking instructions) carefully, as all instructions are
- The smaller the food pieces, the shorter cooking time. If you have little to (or choose smaller pieces, like a small egg instead of a large one).
- Lowering the temperature usually extends the cocket time.
- Turning up the temperature is more risky as in the cause the surface of inside would be still raw.
- If you have a smaller baking the recipe, lengther it is time, as the layer to be cool will as itser.
- If you a larger baking tin than required by the recipe, shorten the temperature and cooking time, as the layer to be cooked will be quite thin and you may easily overcook the food (usually cake).
- Knowing your oven is the key experiment with a couple
  of dishes to make sure how to use it and when to change
  settings. Usually, fan-assisted ovens require lower
  temperatures, as otherwise cakes or meats may come
  out burnt on the outside and raw in the middle.







## Skill 1d: General practical skills – Test fo

### Instructions for using a temperature probe

A temperature probe is a precise device which allows measurement of the temperature in the core of the food to make sure it cooks evenly and to ensure food safety. The core temperature should be 75 °C to make sure all pathogenic bacteria are killed and the food is safe to eat – this is because most bacteria thrive at temperatures between 5 °C and 63 °C, which is referred to as the *danger zone temperature*.



- Clean it and disinfect with a disinfectant spray. This is important to make sure it does not carry any microorganisms or pieces of other food products, which might be allergenic and cause crosscontamination of the food.
- 2. Switch the probe on.
- 3. Insert it at an angle into the thickest part of the food (or the centre). Manot to touch the tin, a bone or base with the top of the probe, as they are much hotter than the food itself and will distort the result.
- 4. Leave the probe in place until the temperature stabilises.
- 5. If it is 75 °C or more, remove, clean and disinfect the probe. The food is reat
- 6. If the temperature is not above 75 °C, repeat steps 1–4 until it reaches the temperature.

### Instructions for using a knife to check readiness

A knife is sometimes used to check whether meats and other solid foods are thoroughly cooked. The knife should be inserted into the thickest part of the food.

If you're checking meat, the juices should be clear — if the jus (juice) is pink or bloody, the food is not ready yet (this excludes bleu'r re beef or tuna steak, where this is a welcome serving methon). Speading the meat apart a little bit you can also see the policy of the meat — bright pink or red means raw.

If you're checking a fine in a paid be opaque (not transparent) and easily flake as

# 

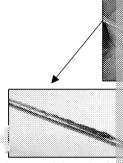


### Instructions for using a skewer

A skewer is a long, thin, wooden stick used to check the readiness of cakes and d

### To use a skewer:

- 1. Choose a clean skewer.
- 2. Gently insert at an angle into the thickest part of the food this will usually be near the middle.
- 3. Remove the skewer. If it is clean, the food is ready to eat. If it is wet or has bits stuck to it, the food needs a little bit more time.



Skewer with bits of cake the cake is not cooke

### Instructi

### or 🗤 🦂 other methods of checking the readiness

Sometimes won't need any special equipment to check if the food is ready,

### Touch:

Useful for checking the readiness of smaller cakes or meat cuts. The texture show poked, not soft or gooey.

### Eyesight:

Cooking usually changes the colour and look of a food. Your eyesight will be especially useful when checking the readiness of cakes and doughs. During cooking, they should rise (expand in volume). Also, during baking, carbohydrates will dextrinise creating a golden/brown colour. More complicated chemical reactions (such as Maillard reaction), which take place during cooking between proteins and sugars will also cause the food to brown and create a more pronounced aroma.

You can also observe the readiness of food when grilling/frying. Fried or grilled meats should set and brown, while fish should turn opaque.

Caramelisation during cooking will create a golden, brown or black colour, which will help you to assess the readiness of onions or caramel sauce.

### **Hearing:**

A sound check is important when checking the readiness of 's ead. When turned the knuckles, a well-baked bread will produce a ho"? (15) nd.

### Taste:

How the food tastes is protection acook. A taste checking the series of a which should be cooked all dente, which means (which should should be cooked all dente, which means (which should should be cooked all dente, which means (which should should be cooked all dente, which means (which should should be cooked all dente, which means (which should be cooked all dente).

Vegetables should be firm, as overcooked vegetables may simply fall apart.

### Aroma:

During cooking, various chemical reactions occur in the food. They change the nutexture, flavour and aroma of the food. Notice that a raw cake mixture doesn't state whole house with its aroma! The same applies to all foods – like bread or me

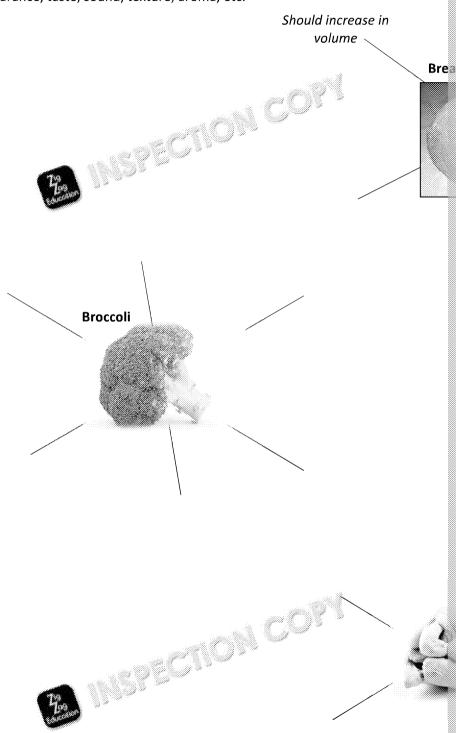




## Activity 1,3: Are you cooking with gas

### Task 1

It is important with many food items that we test for readiness. Complete the diagnostic foods below should be like when cooked, and how to best check if they are readine appearance, taste, sound, texture, aroma, etc.



Now cook one of the foods above and check if you were right!



### Task 2

Split into three groups. Each group will have to prepare cupcakes using the same oven settings, as shown below.

Group 1	Group 2	
Use mini cupcake moulds (30 ml).	Use normal cupcake moulds (60 ml).	Us€
Place one mould on the top shelf	Place one mould on the top shelf	Pla
of the oven.	of the oven.	of t
Place one mould on the middle	Place one mould on the middle	Pla
shelf of the oven.	shelf of the oven.	she
Place one mould on the bottom	Place one mould on the bottom	Pla
shelf of the oven.	shelf of the over	she
Repeat with different oven settings	Rencat with dimerent oven settings	Rep
– e.g. higher temperature, lower	e , அgher temperature, lower	– е
temperature, fan.	remperature, fan.	ten

cipe for cupcakes (make one batch and share between groups Here's the cupcakes are sult of various cooking settings, not ingredients).

- 220 g soft butter
- 220 g golden caster sugar
- 4 large eggs
- 1 teaspoon vanilla extract
- 220 g self-raising flour

In a large bowl, beat t and fluffy. Whisk in th the flour and fold. Pou until they are ¾ full. B minutes.

Take pictures or make notes of what happened to each cupcake, then repeat the settings.

Group number		What do I observe?	How contacts
Cupcake 1 (top	o shelf)		
Cupcake 2 (m shelf)	niddle		
Cupcake 3 (bo shelf)	ottom		
Œ	3		



# COPYRIGHT **PROTECTED**



## Skill 1e: General practical skills – Judge and modif

### Instructions for tasting during cooking

It is important to taste the food during cooking to ensure everything goes well as since tasting involves close interaction with the cook's mouth, it is necessary to forder to avoid its contamination.

- Rinse your mouth with water to cleanse your palate.
- Always use a clean spoon for tasting.
- Do not use the same spoon twice, as it has traces of your saliva on it.
- If multiple people are tasting the dish, each of the bould use a separate

### Alternative methods

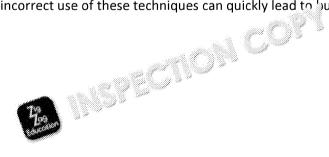
Instead of syclaphoral use cups, mugs, glasses or any other device for tasting a small supplement spoons or buy a packet of plastic disposable ones.

### Instructions for seasoning, changing the taste and aroma

The taste of the food may change during cooking, and what first tasted delicious catastrophe. To avoid such situations, follow the rules below.

- Always add salt at the end. Over-salting is probably the most common mare naturally high in salt which is released during cooking, so no addition especially to dishes which contain bacon, ham, sausage or cheese, as the will release their saltiness into the food.
- Also, pepper should be added at the end, especially if you're using pepper some sausages, which will spice the dish up anyway.
- Add dry herbs at the beginning to give them a chance to release their are fresh herbs at the end of cooking to preserve their natural value (they well
- Some spices need to be heated to release their aroma (usually when make frying them in a small amount of oil, and only after that other ingredient added.
- Add cream, coconut milk or yogurt at the end of cooking, as overcooking denature and create unsightly bits, which look like cottage cheese.

You can also amend the flavour of the food by using **dextrinisation** and **caramelis** you to obtain a darker colour and a slightly sweet taste. Make sure to use the colour, as incorrect use of these techniques can quickly lead to burning of the food



# 



### Instructions for changing the texture

The texture of the food is just as important as the taste. The texture can be change

### **Changing texture before cooking:**

- Marinate foods to alter their texture and soften them.
- Sprinkle (or cover) foods with breadcrumbs, which will then create a crispy surface.
- Glaze pastry or bread to make it shiny and golden.
- Add crust (usually the leftover shortcrust pastry is used for this).
- Sprinkle sugar on top to allow caramelising during baking (applies to sweet foods) – this will also turn the surface gold own.

### **Changing texture during cooking:**

- Increase the cooking time t e leager the cooking time, the crispier the especially to to s. 48 mas, pancakes, waffles, potato crisps, chips, etc.)
- Low tended and increase the cooking time this will help to food applies to soups, stews and sauces).

### Changing texture after cooking:

- Blow torch or grill crème brûlée (or any other dessert) to caramelise sug crispy top.
- Reduce a sauce to evaporate water and make it thicker. Add a small piecemore creamy.
- Add a beurre manié paste (butter mixed with flour into a thick paste) to thicker. The more flour, the thicker the mixture. Also, using potato starch transparent and jelly-like.
- Allow meat to rest after cooking before you cut it, as this relaxes the muliquice) inside and makes the meat easier to chew.
- Toast or grill bread to obtain crispy toasts or croutons.

### Alternative methods

You might notice that changing the texture often affects the flavour of the food also make it richer while adding a paste will make it more buttery.

### Instructions for garnishing and decorating for presentation and

The way the food looks is very important, as before we even have the chance to smell it, we see it and judge whether it looks appetising or not. How the food lock then, important in food choices.

- Garnishes are all decorations on savoury foors. ey include chopped of whole herbs, vegetables, sauces or to be a priex-shaped decorations, like tomato roses or carrot flowers.
- **Decorations** are worked to sweet foods, and include icing, chocked, compared to sweet foods, and include icing, chocked, cho

### How to choose garnish or a decoration:

- Make it contrasting in colour to the dish green chopped coriander look good on a tomato curry, but not on a green pesto spaghetti.
- Emphasise the main ingredient a candied lemon or zest on a lemon che
- Make it contrasting in flavour a sour lemon wedge will go nicely with a cracklings will not
- Roast nuts or seeds, as it will create a nicer, deeper flavour and a crispy

You will learn more about garnishing in Skill 3.

# 



### Instructions for portioning and presenting the food

How the food looks is just as important as its taste. Here are some tips to help you appetising:

- Choose clear, light-coloured plates but not blue as it will cause loss of
- Large plates usually look better than small ones, as the latter may look '@
- Cut and portion the food on a chopping board and only then transfer it t messy).
- Place the food in the middle of the plate.
- If possible, stack the food it looks better than spread flat on the whole
- Gently sprinkle a couple of drops of sauce next to the food not directly
- The rest of the sauce can be served in a separate so (sauce boat).
- Carefully place the garnish on the plate t്രാര് മുക്ക്ല് the composition.
- When laying out cookies, cakes have canapés or finger foods, arrange contrast. You can also that the ray with white napkins, and decorate it with
- Pieces of bread and micharoods (such as fruit or vegetables) should be of a fraction is any you will also fit more into a dish.
- May the portion is not too large, to avoid food going to waste.
- Serve the dishes in the correct order: begin with a drink (aperitif), then goes fish dish, meat dish, salads and cheese. Coffee and desserts are served lasseparate table (or even in another room).





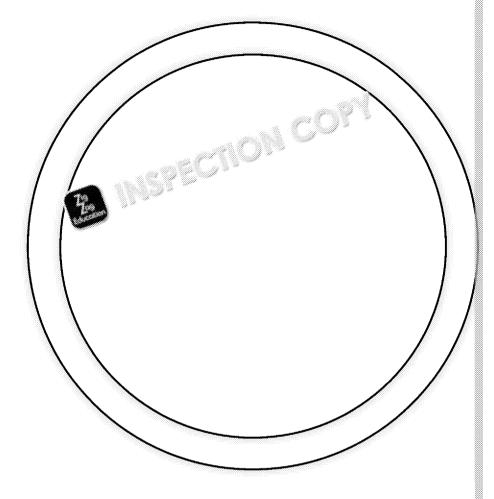






# Activity 1.4: Will your plan go astray?

You have been asked to prepare a dish consisting of potatoes, duck and vegetable could prepare with the use of these ingredients. Consider how you will present you prepare the portions, check for readiness, etc. to ensure you obtain the desired effect.



# Weighing, measuring and portion control Checking re Other issues to address



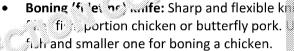
# Skill 2: Knife Skills (Overview

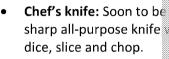
Using a knife is an important skill, one without which no cook can cook. It is crucknife, and the cutting technique which applies to the food product at hand and the skill is designed to help you learn basic techniques used to peel and slice fruit and fish, portion a chicken, and remove fat and rind from meat.

### Equipment

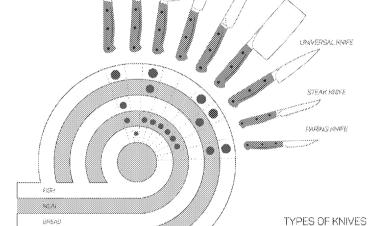
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- Carving knife: La together with spender, meat, ham, poult cutting larger vegeners
  - Cleaver: This sharp with a very and separating e.g. ribs.
  - Universal knife slightly smaller may be used for smaller pieces cutting meat.
  - Steak knife: T serrated blade
  - Paring knife:
     and even edger
     and fruit, remoseeds, cleaning



Other equipment used for cutting includes:

 Peeler: This is a double-edged tool designed to easily peel fruit and vegetables, slice off thin strips and ribbons, and sometimes remove the core



### Health a( 🎼 fe 🕽 (11ps to remember!)

- Make sure the handle of the knife and your hands are clean and dry you don't want it to slip out.
- Ensure the knife is sharp a dull knife is often more dangerous than a sharp one, as instead of cutting through the food it will slide down it and hurt you.
- Choose the correct chopping board professional chopping boards are colour-coded to avoid cross-contamination and food poisoning.



# Skill 2a: Knife skills (fruit and vegetables) – Pe



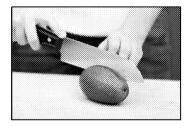
So what's the difference between peeling and slicing?

**Peeling:** removing the skin (outer layer) from a fruit or vegetable. Some f peeled, e.g. cucumbers.

**Slicing:** cutting into slices. Some types of fruit are better off separated into segme while some are better off left intact or just cut into halves, e.g. grapes.

### Instructions for peeling and de-skinning

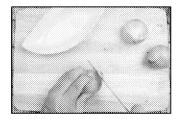
- 1. Wash the fruit/vegetable to remove wax or dirt, and nat it dry.
- 2. Hold the fruit/vegetable with one hand, while with a peeler from edge side.
  - For de-skinning toms (a) \$, a) with a paring (a) \$. This way you will only remove a very thin lay the same purp.
  - r | Saing bananas, cut off the 'black' end and pull the skin to re'e 'black' end. Both methods are just as good.
  - For peeling avocados, cut them in half, remove the pip and spooway you will save as much flesh as possible.







To peel onions, simply pull the brown, rigid layer from top to both.
 this. Rolling the onion against a chopping board may help to loos is to chop off both ends and pull off the husks (as shown below).







- **To peel garlic**, press the clove (or the whole head!) gently with a board. This will crack the husk open and locatinit, so peeling will
- To de-skin bell pepper, place it on a law of they and roast for a coskin will peel off itself. Alter a ively hold it above a flame make

### Extra tip:

- → Remembarnat some fruit and vegetables are more susceptible to enzymatic peeling, blanch them or sprinkle with an acid (vinegar or lemon juice).

# 



### Instructions for slicing

For slicing you will need to familiarise yourself with two techniques. One of them is the **bridge hold**.

- 1. Grip the fruit or vegetable between your thumb and the rest of the fingers, forming a bridge above it.
- 2. Now cut underneath or in front of it to cut the fruit or veg.



This is especially useful when cutting food products such as grapes, tomatoes, baby potatoes, etc. into halves. A vegetable knife might be best for this.

The other technique is called a claw grip.

- 1. Curl your fingers together to form a 'w, wan which you will hold the frame of table.
- 2. Use the chef's knife and ing the product in front ou a since is cut off.





### Extra tip:

If you want to obtain even slices, try to use an egg cutter (the one which looks like a tiny grill). This will work for soft foods, such as cooked carrot or potatoes, or tofu. You can also try to slice the vegetables, such as carrot, cucumber or courgette, with a peeler. This will allow you to obtain long, thin ribbons – choose the serrated blade to make them even more fun!

### Alternative methods

- You don't always need a peeler to peel vegetables. It is just as easy to do with a paring knife.
- If you want to peel only a very thin layer of the skin, simply scrape it off
  with a paring knife (try this with a carrot or parsnip) or with a clean
  metal scourer or the harsh side of a clean kitchen sponge (great for
  peeling baby new potatoes).
- For chopping cooked vegetables, try to use an egg cutter.
- Peeling garlic made easier? Use a silicone tube! Simply insert the cloves inside and roll to remove the husk.

For more on how to use the bridge of the control of

For more on how to use the claw grip set zzed.uk/9289b

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## Skill 2b: Knife skills (fruit and vegetables) – Dicin different holds



So what's the difference between dicing and cutting?

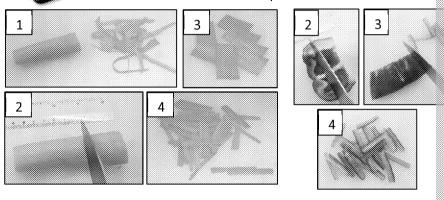
**Dicing:** chopping fruit or vegetables into cubes. Depending on their size, pieces called brunoise, or larger ones called macédoine.

Cutting: cutting fruit or vegetables into strips. Depending on their size, you can ob julienne, or larger batons.

### Instructions for julienning

As julienning requires very thin slices, it is best applied a mard vegetables, such a parsley root.

- 1. Wash and peel the war blant hand (some vegetables do not need peel
- 2. Cut the vegotifies of cm long pieces.
- 3. No Process piece into 3 mm thick slices.
- es into 3 mm thick match-like strips.



Extra tip: for batons (also called jardinière) cut into 5 cm long pieces, then each p mm thick strips.

### Instructions for dicing

Small cubes with 3 mm-long edges are called brunoise. As they are also very small this technique is best applied to firm vegetables and fruit, as soft ones could simply fall apart.

- 1. Cut the vegetable as for julienning.
- 2. Turn the matchsticks by 90 degrees and chop them ir to 3 mm cubes.

Extra tip: To obtain a macédoine, the dices' in entire should be around  $6\times6\times6$  mm. Large dices, which and the large, are called carre, while dices of size 1 are called Parmentier.

### Alternative

- You can try to obtain a macédoine dice by using an egg cutter (one with the grid). Simply press the vegetable through about half a centimetre, and then move sideways to cut off the pieces, which will fall below. Continue to chop the whole vegetable. This can only be applied to soft products, such as cooked carrots, potatoes or eggs.
- Remember that some fruit and vegetables are susceptible to enzymatic browning. Blanch them briefly in hot water and plunge into ice cold water to prevent darkening, when cutting.

# 





# Activity 2.1: Chop chop!

### Task 1

For each of the vegetables below, indicate whether it would be best to use a claw them into the desired shapes and sizes.

Vegetable	Claw grip?
Cut celery sticks into slices.	
Cut celery sticks lengthwise.	
Cut a tomato into slices.	
Halve cherry tomatoes.	
Dice potatoes.	\$ 3 · · · · ·
Slice pota	
Slice carrot	
Cut carrots lengthwise.	
Julienne a bell pepper.	
Dice garlic.	
Slice a courgette.	
Dice an onion.	
Slice an onion.	

# 





### Task 2

Your task is to prepare the following foods to make a simple beef stew.

Complete the table to identify what kind of knife are you going to use for each of you may have endured and provide your own rating of how difficult each task is Compare the results with your classmates – perhaps they could help you out wit especially difficult!

Here's what you will need:

- 300 g stewing steak
- 1 large potato
- 1 large carrot
- 1 small onion
- 1 celery stick

- vegetable oil
- stock cube
- water
- fresh rosemars
- black pepper
- salt

<ul> <li>1 large potato</li> <li>1 large carrot</li> <li>1 small onion</li> <li>1 celery stick</li> </ul>		stock cube water fresh rosemar black pepper salt
Ingra	Type of knife	Main difficult
Cut the beef into 2 cm cubes.		
Peel the carrot.		
Cut the carrot into thin slices.		
Peel the onion.		
Cut the onion into thin slices.		
Peel the potato.		
Cut the potato into 1 cm cubes		
Cut the celery into 2 cm slices.		



# Skill 2c: Knife skills (meat, fish or alternatives) – Portioning a chicken

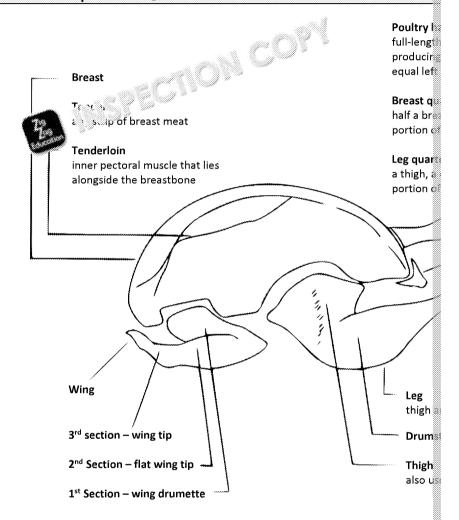


When cutting meat and fish, you will come across the following terms:

Filleting: removing the bones from fish or chicken to obtain a clean, bonel

Portioning: cutting a chicken, pig or any other animal into parts, such as

### Instructions for portioning a chicken



- 1. Grab a clean filleting knife and an appropriate changing board (red).
- 2. Place the chicken on the board, back side up.
- 3. Pull away the leg and cut off between he in also separate the thigh from the drawstick (again, cut between the joints)
- 4. Pull away the wing the ween the joint and the breast to remove it.

  Cut office at the analysis are have no meat on. You can use them to prepare
- 5. No me to separate the breast. Cut along the backbone, pulling aw bready to cut as close to the bone as possible. Repeat on the other s

You now have two legs (or two thighs and two drumsticks), two wings, two breasts and a carcass, which can be used to prepare a broth.

# 

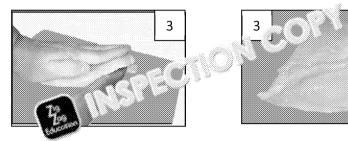


### Instructions for filleting a chicken breast

For filleting a chicken breast, you can use two different techniques.

### To butterfly a chicken breast:

- 1. Before beginning, check whether there is a thin slice of meat loosely attacted tenderloin and you can cut it off for later use, e.g. in stir-fries.
- 2. Now pull the skin off the breast, using a knife to help you if the membra
- 3. Press the fillet to the board, thicker end towards you. Insert the knife at it parallel to the board through  $^{7}/_{8}$  of its width, pulling towards you. This should be able to open the breast like a book.



### To pocket a breast you need to:

- 1. Press it against the board, and insert the knife about an inch from the end. Do not cut all the way through, but leave about an inch on the other side as well.
- 2. This way when you're done, you should be able to open the breast like a pocket, which might be useful for stuffing it with herbs, butter or breadcrumbs.

### Extra tip:

Remember that raw meat is quite slippery. To reduce the risk and create a cleaner cut, place the meat in the freezer for about 15 minutes. This will toughen it up and make the filleting easier.

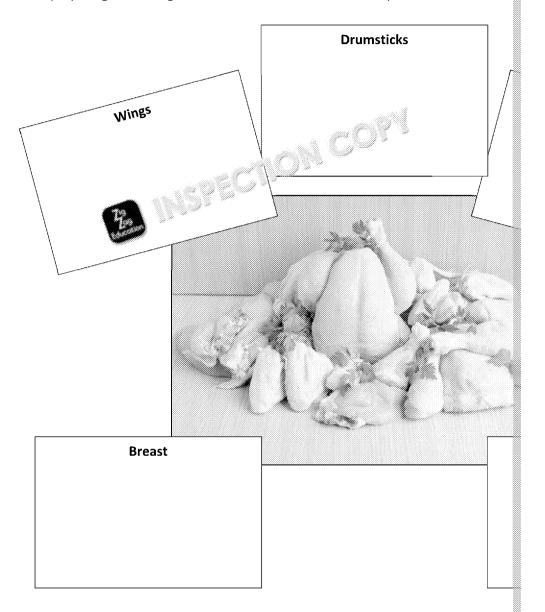






# Activity 2,2: Are you able to cut it?

After portioning a chicken, you have obtained various pieces of meat. For each of preparing or cooking it in order to best use its value and prevent food waste.



**3** 



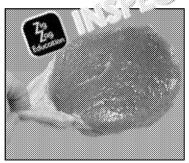
# Skill 2d: Knife skills (meat, fish or alternatives) – rind and cutting raw and cooked m

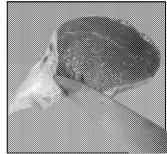
### Instructions for removing fat and rind

Rind is the skin which sometimes surrounds your meat cuts, like bacon or gamm meat before cooking by simply pulling it away and cutting with a small knife if it

### To remove fat:

- 1. Gently pull away all the visible fat (should be white ellowish fat mean shouldn't be difficult, as the fat usually according to a the outside, right
- 2. While pulling, cut with a sharp knife ing the edge of the fat (between the parallel to the meat), trying a factoring into the meat.





Ch ren zze

### Instructions for cutting raw meat

You might find this useful when preparing meat for stir-fries, curries, or simply classippery. Wrap it in kitchen foil and put it into a freezer for 15 minutes to tougher

### To cut raw meat:

- 1. Use a chef's knife.
- Cut against the muscles (so-called grain), as this will allow you to obtain more tender meat after cooking, as the muscle fibres will be shorter. This way you will make chops.
- 3. If you want to make dice, simply cut the chops into strips and then into dice.





cutting straight through to fall apart, as it will be to

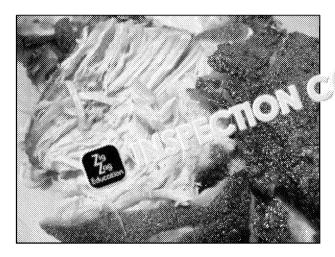
For more of slice meat grain see: zzed.uk/92



### Instructions for cutting cooked meat

### To cut cooked meat:

- 1. Remove it from the cooking pan and place on a chopping board.
- 2. Allow to rest for a couple of minutes if you cut too early, the *jus* (juice) be dry and chewy.
- 3. Use the fork to hold the meat in place and cut through with a carving kn allow you to obtain nice, thin slices. Again, remember to cut against the





You can easily observe the muscle fibres in meat when pulling roast po

### Alternative methods

Sometimes cooked meat is so tender you don't need to cut it. It's enough if you is called 'pulling' and is often done with cheaper meat cuts which could otherwise pork, or chicken).



# Skill 2e: Knife skills (meat, fish or alternatives) – Fi



Filleting: cutting the meat off the fish to obtain a clean, boneless fillet

### Instructions for filleting a fish

**Filleting a fish** is a demanding, high-level skill only a few people know how to do a couple of tips:

- 1. First, grab a proper filleting knife. It should style by thin, flexible and have a blade long enough to cut the harmonic whole fish.
- 2. You can cut off the fins with the fins with the scissors. Pull them away from the body ard the ween.
- 3. Now te the two flaps just behind the fish's necessary has using for breathing. Cut the head off right behind there
- 4. If your fish is <u>smaller</u>, insert the knife right above the tail and cut towards the (now removed) head, tightly holding and gently pulling the tail. Hold the knife flat, let the backbone of the fish be your guide.
- 5. If your fish is <u>larger</u>, cut deep behind the gills but do not remove the head entirely. Instead, hold the head and insert the knife flat into the fish, cut the backbone. The head is useful, as you have something to hold onto we gently pulling and making the cutting easier.
- 6. Repeat on the other side of the fish. You should obtain a head, two fillet carcass with a tail OR two fillets and a carcass with a head and tail. You can this to make a fish broth / aspic.

### To remove the skin from fish:

- 1. Place it on the chopping board, skin down.
- 2. Insert the knife flat between the skin and the meat, and cut across the skin, pulling the meat upwards. This might be difficult at first, but practice makes perfect!
- 3. Cut left to right if you're right-handed and right to left if you're left-handed.

### Extra tip:

Remember that fish is very slippery. Wash it properly prior to filleting and pat dry with a paper towel. If there are any bones left in your an remove them with tweezers.



Check how to fillet a at: zzed.uk/9289j



### Instructions for cutting raw fish



Sometimes you need to cut the fish to obtain Some fish, like carp, may be **cut into slices**. Whole fish into chops, without filleting. The backbone and some fish bones. As they conprepare fish aspic.

Other fish, like salmon, need to be **finely sliced** in order to use them in recipes for curries or sushi.

- 1. First, place the fish on a chopping board and observable he direction of the muscle fibres (this is applied to large fixed const, like those of a salmon).
- 2. Cut the fish fillet along the mass to portion it into broad strips in which the fibres way, as it is important to keep the
- 3. Cut lices across the grain, slightly inclining your knife towards the degrees).

### Extra tip:

- → You will notice the white stripes between the pink flesh this is connect the grain, you would end up with long fibres of it, which are rather unple
- → Cutting straight through the fish would allow you to obtain short, narrow angle you can obtain larger slices.

### Instructions for cutting cooked fish

Some fish, like trout, are cooked (grilled, roasted, etc.) and served whole. How a



- 1. Place the fish on a chopping board or on
- 2. Gently cut in the middle until you feel re
- 3. Cut through the fish towards the tail and open it.
- 4. Now you have a large fillet with a skeletco
- 5. To remove it, chop off the head and gent use the fork or a spoon to make sure no

### Extra tip:

Cooked fish is usually very delicate and may fall apart all by itself. Look out for 'we they are to avoid having many tiny fish pieces.

### Alternative methods

You can also try to fillet the who we have me back side. When it's lying on its side, cut the fillet, expending the part we. Gently pull the backbone up, using a knife or a for the plate.

# 





# Activity 2,3: A (short)cut to meat prepara

### Task 1

Some recipes require you to remove fat or rind before cooking a piece of meat. Identify two advantages and two disadvantages of the process.

Advantages	Di

### Task 2

The way the muscle fibres are packed in a piece of meat is important when tryin

- Take a piece of raw meat (e.g. beef) and identify the direction in which t
- 2. Then place the meat on a chopping board and cut it in half across the mu
- 3. Quickly fry or boil one of the meat pieces.
- 4. Try to slice each piece of meat using various knives (e.g. serrated knife, c knife). Write down your observations.

	Raw meat	
Serrated knife		
Chef's knife		
Paring knife		
Fil Tisknin		

5.	In your knife experiment you will have produced a lot of little scraps of c
	Suggest two ways of reusing them to prevent food waste. Then choose o

1.	 	 	•••••

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# Skill 2f: Knife skills (meat, fish or alternatives)



**Alternatives:** meat alternatives include high-protein products that are some usually to satisfy the nutritional requirements of vegetarian and vegan dies as tofu, textured vegetable protein and mycoprotein, as well as various kinds.

### Instructions for preparing tofu

Tofu, also known as bean curd, is made of coagulated soy milk. Depending on how much water is pressed out of it, it can have different textures – from very soft and silky to firm, hard and crumbly.

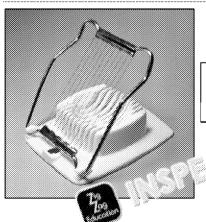
- Silken tofu will be easier to spread, as it is vere so, while an extra hard regular tofu may be a bit crumbly and on suitable for cutting into a fine dice or thin slices.
- Usually tofu has a some since the texture, and is easy to cut into slices the consists of protein and fat, but the water, it will mostly keep its shape.
- Tofu be marinated, grilled, pan-fried, stir-fried, deep-fried, breaded, crumbled into soup or eggs, baked, mixed into smoothies, puddings, salad dressings, sauces, dips... It all depends what kind of tofu you have.
- Use silken tofu for blending with other things; use hard tofu for crumbling or cutting.
- Use the chef's knife to ensure even edges and limit unnecessary crumbli

### Instructions for preparing halloumi

Halloumi is a semi-hard cheese made of goats' and sheep's milk, set with rennet brined. It has a relatively high melting point, which means that it can be safely graftied. Its texture is quite tough, similar to mozzarella. Simply cut into slices with a knife and enjoy either raw or cooked.

### Extra tip:

Soak the cheese in buttermilk for a day or two to remove excess salt and improve flavour.



### Alternative methods

Try to cut softer tofu with a legg cutter to ensure the cutter's strings for a greenough!

See how to co



# **Skill 3: Preparing Fruit and Vegetables**

Fruit and vegetables are an important part of a daily diet. It is important to prepartheir nutritional value, texture, colour, taste and aroma. This skill is designed to which turn boring fruit and vegetables into lovely, mouth-watering, appetising for

### Equipment



Plastic, sile of metal tool with a long handle and a broad 'foot' with many openings. Designed to mash potatoes, it will be just as good at mashing swede. Use a ricer if you don't have one – it looks like a large garlic press!

### Grater

M

ru

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S C

Multipurpose metal tool which can grate, shred or slice. Use larger openings to obtain fine strips; finer round ones will turn most foods into a pulp – which may be beneficial, e.g. when making potato pancakes.



### **Snipping scissors**

Scissors with many blades, ideal for chopping herbs. They are quick and effective.



This is a deep metal spoon designed to scoop out the flesh of a fruit, like melon or watermelon.

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Zig Zag Education

## Health an Larety (Tips to remember!)

- When blanching food, make sure not to burn yourself.
- Use gloves when grating or shredding foods it will protect your nails ar

Always use a sharp knife and the correct chopping board: green for salad

## Skill 3a: Preparing fruit and vegetables – Mash



Mashing: reducing a food product into a soft, smooth pulp

Crushing: smashing a food into small pieces

### Instructions for mashing and crushing

Mashed potato is probably one of the favourite British staples.

- 1. Begin by boiling the food it can be potatoes, sweet potatoes, swede ₩
- 2. Once cooked, drain the water.
- 3. Place the pan on the hob (low heat) and allow to waver to evaporate for the steam will burst straight into your act when you begin mashing.
- 4. Turn off the hob, and mash a features press a potato masher down press around the notation is each portion has been mashed twice
- 5. Add beer, a seasoning, if required) and mash age text.









If you want to obtain perfectly smooth mushy peas, try to press them through a hard skins.

### Extra tip:

Do not mash for too long, as this will turn the mash into an unsightly pulp. This is structure you release the starch, which in turn makes the mash gummy.

### Alternative methods

You can simply mash food with a fork, although this is not very efficient when mo masher is available, try to use a ricer. Sometimes a blender might come in ha



# 



### Instructions for crushing

Why would you want to crush food? How about creating a lovely cheesecake wit you will need a mortar or a rolling pin.

### To crush biscuits or nuts:

- 1. Place them in a thick plastic bag and close, leaving as little air as possible inside.
- 2. Place on a chopping board and roll over with a rolling pin, making sure you do not press too hard, as this may cause the bag to break.
- 3. Repeat as long as is needed to obtain a fine crumble.

Crushing may also be useful to **ground** certa such as **seeds** or **garlic**.

- 1. Place them in a many and arosh with the pestle.
- 2. Remark to hard may turn the food into a by hash, as many of them contain a lot of fat and





### Alternative methods

You can try a blender or food processor to crush biscuits, seeds and nuts — use the mixture, as overcrushing will turn the seeds into a nut butter.

More on long pestle and szed.uk/9







# Activity 3.1: It's not such a hot potate

### Task 1

Get into five groups. Each group should prepare and boil a different variety of potatoes, Duke of York, Maris Piper). In each group, drain, and then mash the potobservations. In the class, set up a simple taste test to assess the flavour of each

Potato variety	Observation
	Observation

### Task 2

Prepare your own pesto sauce by crushing the ingredients in a mortar and in a b flavour of the two sauces. Here's what you will need:

- 2 bunches fresh basil leaves
- 2 × 25 g pine nuts (or sunflower seeds)
- 2 × 2 cloves fresh garlic
- 2 × 3 tablespoon olive oil
- 2 × 1 teaspoon lemon juice
- 2 × 1 tablespoon grated parmesan cheese or a salta ian alternative

	rر کے قیا pesto	
Appearance		
Texture		
Flavour		

# 



## Skill 3b: Preparing fruit and vegetables – Shred



Shredding: slicing food into thin, long strips

Grating: turning food into small threads or a pulp by rubbing it against a

### Instructions for shredding

Shredded vegetables are often used as a base for salads, soups and stews.

### **Shredding cabbage or lettuce:**

- 1. Begin by removing the bad, damaged exterior '? ve
- 2. Place the cabbage on the chopping board with a smard stem facing downwards, and on the half with the cleaver or the chef's but and a smart with the cleaver or the chef's but a smart with the cleaver or the chef's but a smart with the cleaver or the chef's but a smart with the cleaver of the chef's but a smart with the cleaver of the chef's but a smart with the cleaver of the chef's but a smart with the cleaver of the chef's but a smart with the cleaver of the chef's but a smart with the cheft's but a smart with the cheft with the cheft with the cheft with
- 3. Now, remain the stack from each of the halves unless planning to use only one of them. The stalk will help cabbage stay fresh for longer, so leave it intact if you're not planning to use the whole cabbage.
- 4. Chop the cabbage in half again.
- 5. Shred vertically if you want longer strips, and horizontally if you want them to be shorter.

### Alternative methods

You can shred the cabbage with a grater or a food processor. This way you will obtain finer, shorter pieces. Since these methods are more invasive, some juice may also be produced – to avoid that, use the pulse setting on the food processor.



# 



### Instructions for grating

Multifunctional graters have four sides, each with different size openings on the to obtain small threads of food, the small, round openings with sharp edges will while the transverse opening will help you to quickly slice foods. The very fine sharp edges and lemons.

### To grate foods:



Small openings for finer threads – good for grating hard cheeses such as parm

fransverse opening for slicing.

Large openings for thicker threads – good for grating cheese and carrots.



Sm⊘ ab⊘ ma⊗

- 1. Wash and peel them (if necessary), and trim the ends, e.g. from cucumb
- 2. Choose which side of the grater you need and run the food down the group own fingertips or nails!

### Extra tip:

Try to grate the foods as quickly as possible, as grating is very invasive and accele browning. Have some vinegar or lemon juice at hand and sprinkle the food with

### Alternative methods

You can also grate food products in a food processor. To do that, cut the product ones won't fit. Also, try to make the pieces even in size, as otherwise small ones ones will be almost intact.





## Skill 3c: Preparing fruit and vegetables – Scissor s



Snipping: cutting into fine pieces with scissors

Scooping: spooning out a round, nicely shaped piece of fruit or vegetable

### Instructions for scissor snipping

Snipping scissors are a fast and clean way of cutting fresh herbs, like dill or parsle

- 1. First, tie the herbs into a bunch with an elastic band, rinse and pat dry was paper towel.
- 2. Snip the herbs from the top (the most leafy part) to leafless part).

The scissors will create even pieces with new set used as a garnish, in salads, so stews, sauces, dips and many set of thes.



You can also

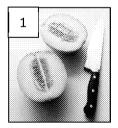
the herbs with a chef's knife or with a special herb chopper (a

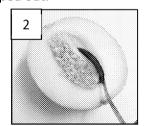
### Instructions for scooping

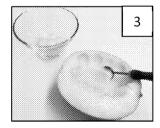
Scooping is easiest with a special scoop – it looks like a deep spoon (or a small labelps to produce even, equal-sized balls. You can scoop raw and cooked vegetable

### To scoop a melon:

- 1. Cut it in half.
- 2. Using a spoon, remove the seeds.
- 3. Insert the scoop close to the skin and dig out a nice, round ball.
- 4. Repeat until you have as many scoops as needed, or until a whole melon is scooped out.







### To scoop a raw potato:

- 1. Choose a large one, wash and peel it.
- 2. Once peeled, scoop out small balls with a small op. You can either boll fry or roast them.

### To scoop a soft mixture, lik ..... \*c.n.ash:

- 1. Choose la : respective possibly one which has a spring release to easily by the susping it out or running underneath it to cut it off the scoop.
- 2. Insees scoop in the mash, make a round move with your wrist and real
- 3. If the mash has stuck to the scoop, you can try to gently remove it with a scrape it off.

The same technique works with ice creams and mousses.

### Alternative methods

You can try to scoop foods out with an ice cream scoop (although they are often hard foods like raw potatoes) or simply a measuring spoon.

# 



## Skill 3d: Preparing fruit and vegetables – Segmen



Segmenting: dividing a fruit or vegetable into small parts, which naturall **Deseeding:** removing the seeds from a fruit or vegetable, either for later

### Instructions for segmenting

Segmenting applies to all foods which are naturally divided into separate segment clementines, grapefruit... you name it.

### To segment a fruit:

- 1. Peel it and remove all the white soft pericary in scaled pith).
- 2. Pull the fruit apart, creating a natural ose ing which will let you remove membranes from between the source.
- 3. Use either your fine and a small vegetable knife to remove the hard me

Remember ove the seeds from the segments – they are now called fillets shouldn't ha hard bits.

### Alternative methods

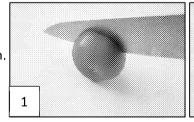
Alternatively, cut in with a knife as close as possible to the membranes, fishing out the fruit pulp and throwing out the membranes. This method is a bit less effective, as it leaves some pulp on the membranes and removes some juice from the fruit.

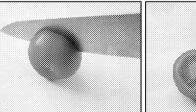
### Instructions for deseeding

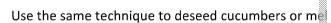
Seeds are a source of vitamins and minerals, but sometimes they just aren't suit have very watery seed cavities, which would turn your salad into a soup or a mass

### To deseed tomatoes:

- 1. Cut them in half.
- 2. Scoop them out with a teaspoon.







### Extra tip:

If you come on the top part of a tomato and scool ⊸ akeji.

🎢 to deseed chilli peppers, as the seeds are bitter and VERY sp 🛭 It is very imp

- 1. Cut the chilli lengthwise.
- 2. Place on a chopping board with its back up.
- 3. Tap a couple of times the seeds should fall out by themselves. If they don't, scoop them out with a teaspoon or cut them out with a vegetable knife.
- 4. Wash the spoon or knife thoroughly before using with any other food!

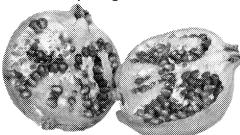
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### To deseed a bell pepper:

- 1. Cut around the green stem in a circle.
- 2. Pull the stem, together with the seeds, out of the pepper.
- 3. If necessary, cut or pull the pepper apart to make it easier.

### To deseed a pomegranate:

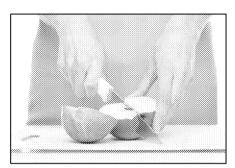


- 1. Cut it in half.
- 2. Place it face down above a bow
- Tap with a tablespoon or a wood straight into the bowl. If they do spoon.

### To deseed a pumpkin:

- 1. Cut the least op (where the stem is) and lift the newly
- 2. Scool but the seeds with a spoon or a scoop, trying not to cut out any flesh.

You can leave the seeds for later – roasted, they will be great in a salad.



### To deseed an apple or pear:

- 1. Place the fruit on a chopping board, s
- 2. Cut lengthwise into quarters.
- 3. Cut off the seeds, together with the stringy part of the stem, from each of the quarters.

### Alternative methods

To remove the core of an apple, use a corer. Insert from the top and cut right the with the core, containing all the seeds and the stem.

You can also use a special apple core remover, especially if you want all the piece









## Activity 3.2: A slice of life in the kitch

### Task 1

Prepare a fruit salad using some of the techniques you have learnt recently. Here

- melon
- watermelon
- kiwi
- grapes
- blueberries, honey and lemon juice for dressing
- or any other fruit of your choice

Complete the table to identify the method you used sinculties you've encounter

	്at did I do with it?	What was the mos difficult about it?
Melon		
Watermelon		
Kiwi		
Grapes		
Blueberries		
Other:		
Other:		
Other:		

### Task 2

Prepare you coreslaw salad. Here's what you will need:

- whit upage
- red cabbage
- apple
- carrot
- parsley leaves
- salad cream or mayonnaise

Plan the process step-by-step by indicating what you will do and in what order.



# Skill 3e: Preparing fruit and vegetables – Blanck garnishing



**Blanching:** putting into boiling water for a minute or two and then plunging to remove skin from tomatoes and prevents enzymatic browning in other for shaping: creating a shape with the use of a knife, usually for a garnish

### Instructions for blanching

Blanching is a very useful technique. The use of hot water do ativates enzymes at the natural colour of foods, and is useful for de-sking in a maloes, as the skin conheat. Remember that some foods, like green had a bloccoli, cauliflower or Bruss before freezing.

### To blanch vegatibles

- 1. Boi 🛂 water in a large saucepan.
- 2. Oncoming, reduce the heat and place the peeled and cut vegetables in the water.
- 3. After some time (this will be shorter for small pieces and longer for larger ones, usually up to 2 minutes) remove the food from the water either by draining or by spooning it out with a ladle.
- 4. Place the food in a bowl with ice cold water OR run it under cold tap water. This will stop the cooking process and preserve its crunchiness.

### Instructions for shaping and garnishing

Shaping vegetables and fruit is a tedious, yet fun way to prepare beautiful decorporation, small carving knives are used, as they are sharp enough and yet allow veryou can carve vegetables and fruit into flowers or any other shape – your imaginal What do you need for shaping? A small, sharp knife, vegetable or fruit which is his shape and not collapse, a pinch of creativity and a lot of time and patience.

### Ribbons

What you need: a carrot, a cucumber, a courgette or another long vegetable, a v

- 1. Wash the vegetable and peel if necessary.
- 2. Cut lengthwise with a vegetable peeler to create long, thin slices they



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ve.

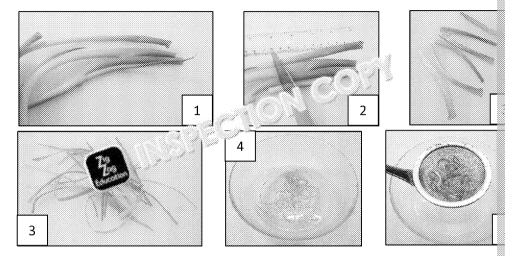
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### **Spring onion curls**

What you need: radishes or spring onions, ice cold water, paring knife

- 1. Place the spring onion on the chopping board and cut off the roots.
- 2. Cut off an 8 cm long piece from the green part.
- 3. Cut each piece into four lengthwise cuts (as if you were trying to cut a startips.
- 4. Place in ice cold water for a minute the coldness will make the strips cu
- 5. Remove from water and drain.



### Strawberry fan

What you need: a large strawberry with the green stem still on, vegetable knife

- 1. Wash the strawberry.
- 2. Place it on a chopping board, stem side downwards.
- 3. Cut it into four or five slices, but don't cut to the end leave a small part
- 4. Spread the slices sideways to create a fan.

### **Carrot lily**

What you need: a large carrot, vegetable knife, toothpicks, vegetable peeler

- 1. Peel the carrot and cut out a 12 cm long piece.
- 2. Cut off a thin layer from each side to make it flat (not round).
- 3. Cut both ends in the shape of a pick (as if you wanted to sharpen it).
- 4. On each oblique surface, cut out small triangles to make an impression of
- 5. Using the peeler, cut alongside to make nine ribbons.
- 6. Roll one of the ribbons into a roll and pin with two toothpicks to create a
- 7. Take two carrot ribbons, make a V-shape and fold inwards, then pin on of 'petals'.
- 8. Repeat with the remaining six carrot ribbons to craw a flower.
- 9. Turn the flower upside down and tie with \_\_\_\_ ot \_\_band to make the flow

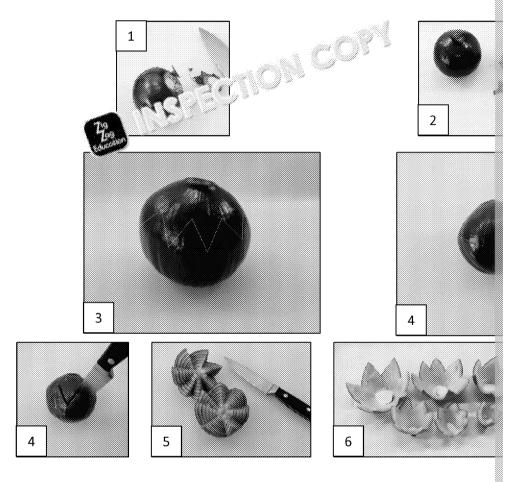




### Simple onion flower

What you need: a small red onion and a carving knife

- 1. Cut off the root of the onion.
- 2. Peel to remove the hard, stiff outer layer.
- 3. Place on the chopping board, the flat root part down. Imagine a zigzag g
- 4. Carve the onion following the zigzag pattern, until the knife reaches the you do NOT cut through the root.
- 5. Once you have cut all the way round, split the onion into two halves.
- 6. Take the bottom half and remove the onion parts layer after layer.
- 7. Restack the onion layers on top of each other, rotating a little bit each ti



### Extra tip:

Dip the tips of the petals in a bowl containing some colourful spices (e.g. curry of even more beautiful.

### Alternative methods

You can also slice the product of the sanape each slice with a cookie cutter to be applied to softer for sold in each each carrot or potatoes.





## Activity 3,3: Will this be a pretty sigh

# Task 1 For each of the foods below, suggest one type of garnish you could use to decore

Food	Garnish suggestion	
Vanilla cheesecake		
Wafer with chocolate ice cream		
Raspberry teacake		
Tuna pasta bake		
Cream of Sup		
Salmon carpaccio		
Beef steak		
Pizza margherita		

### Task 2

Your task is to peel some tomatoes using different techniques, as described belowhether it was easy or not so easy to do.

	Ho	w ea
	Fairly easy	
Place the tomato in the fridge for 1 hour. Remove		
from the fridge. Place in a saucepan. Pour over boiling		
hot water. Peel.		
Place the tomato in the fridge for 1 hour. Remove		
from the fridge. Cut shallow cuts diagonally, where		
the stem was attached. Pour over boiling hot water.		
Peel.		
Take a tomato stored at room temperature. Place in a		
saucepan. Pour over boiling hot water. Peel.		
Take a tomato stored at room temperature wit		
shallow cuts diagonally, where the the watached.		
Place in a saucepan. Pour ്രൂട്ടിച്ചു not water. Peel.		

What conci 4 an you draw from this experiment?	

# 



## Skill 3f: Preparing fruit and vegetables – Blen

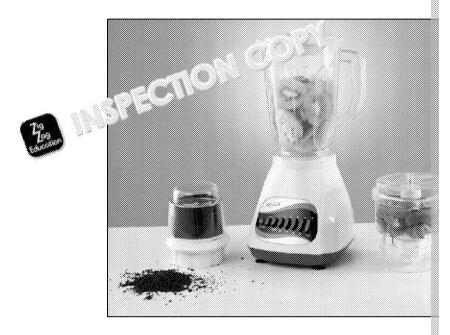


Blending: mixing into a smooth mixture

Juicing: squeezing or pressing to obtain juice

### Instructions for blending

Blending is a very useful technique which allows cream soups, smoothies, cockta mousses to be made. It doesn't matter whether you have a simple hand blender



- A good blender should have sharp blades and enough power to deal with a 300 W blender is good for blending soft mixtures, like cream soups and 650 W will be better when blending chickpeas into a hummus or peanuts
- If blending soups and other hot foods, make sure they aren't too hot le
  while, as hot temperatures will dull the blades.
- Also, ensure your bowl (or whatever dish you're using) is tall enough, as force will make the food go up and, possibly, spill out.
- If using a hand blender, hold the dish with your other hand, as otherwise and splash the food around.
- It is easier to blend foods if the whole 'foot' of the blender is covered a
  force will create a 'hole' and splash the food arous
- Put a lid on top and hold during blending and issue (of course, a hand blending and blending and blending are seen as a second and blending are seen as a second and blending are seen as a second are second a

### Alternative methods

If you don't the beginning can try to press the food through a fine sieve (go cream soup shift with a masher/ricer. Make sure the food is well cooked, a do with harder pieces.



### Instructions for juicing

Fruit and vegetable juices are a good source of vitamins and minerals. If you leave some pulp in, they will also provide some fibre, which will in turn slow down absorption of sugar and prevent high blood sugar levels.

There are many different juicers. Small hand juicers are ideal for squeezing lemon or lime juice when you need some to add into a salad, dressing or a cocktail.



Electric citrus juicers are perfect for preparing your own orange juice for the whole family.

To mal and pounts of juice you will need a more plants in all juicers are quite large and look a bit like plant need to peel the fruit and vegetables, cut them in slot. They will then go through a couple of fine graters and you will obtain a clear juice.

There are also food presses available, which are usually used in industry to produbly pressing the fruit or vegetables with high force.

### Extra tip:

Remember that some fruits and vegetables are more susceptible to enzymatic browning than others. Always have some lemon juice at hand to prevent it.

### Alternative methods

- What to do if you don't have a citrus juicer? Wash the fruit (orange, grapefred and roll on the worktop to make it soft. Cut in half and squeeze the juice out try to use a metal whisk to get the juice out.
- If you don't have a juicer machine, you can try to use a blender or a food projuice, let it strain through a thin membrane, like a coffee filter or a layer of good



# 

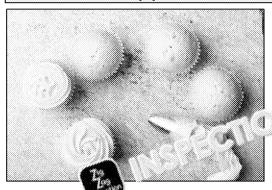


## Skill 3g: Preparing fruit and vegetables



**Piping**: squeezing out a soft mixture from a piping bag, through a nozzle

### Instructions for piping



Piping is an interesting way of making bag (or tube) is usually fitted with a or plastic interchangeable tips), which created.

ingigused to decorate cakes and cuchesse potatoes.

The mixture used for piping has to be out, but firm enough to maintain the

mash and but creams are examples of a proper consistency.

### To pipe duchesse potatoes:

- 1. Make a potato mash with butter, cream and egg yolks.
- 2. Let it cool down a little.
- 3. Place the chosen tip on the piping bag.
- 4. Put the mash into the piping bag, making sure there are no air bubbles or holes simply push each spoon in to make sure there are no empty spaces.
- 5. Close the bag by spinning it.
- 6. Press the mash out from the top of the bag, creating little star-like round shapes.
- 7. Sprinkle each star with melted butter and bake.

### To pipe cream:

- Make a cream using butter, icing sugar and a little milk (you can add cocoa to change the colour, or swap some butter for mascarpone cheese).
- 2. Place the chosen tip on the piping bag.
- 3. Put the cream into the bag, making sure there are no empty spaces.
- 4. Close the bag.
- 5. Press the cream out by squeezing from top of the harmaking swirls, flowers, stars or any other shape on a cake and customake.

### Extra tips:

- → You can here, bag to make writing on cakes by putting some melter thinne.
- → Also, use the piping bag to make mayonnaise, mousse and sour cream deco

### Alternative methods

If you don't have the cake decoration set, simply put your cream or mash into a one of the corners. The larger the cut, the bigger the shapes you will be able to so

**M**⊚





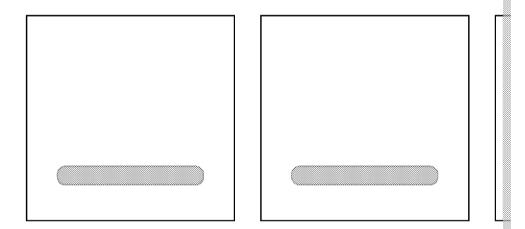
## Activity 3.4: Food in the pipeline

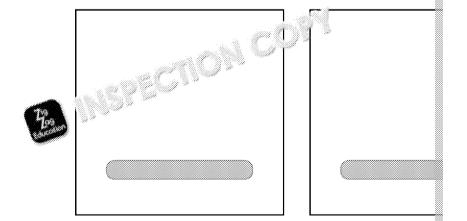
**Task 1**From the foods below, tick those which have to be peeled before juicing.

carrots	strawberries	bananas	
mangos	apples	blueberries	
clementines	celery	eetroots	

### Task 2

You have been asked to the sign of selection of canapés in the form of open minissiplanning to the sign of selection of canapés in the form of open minissiplanning to the sign of selection of canapés in the form of open minissiplanning to the sign of selection of canapés in the form of open minissiplanning to the sign of selection of canapés in the form of open minissiplanning to the sign of selection of canapés in the form of open minissiplanning to the sign of selection of canapés in the form of open minissiplanning to the sign of selection of canapés in the form of open minissiplanning to the sign of selection of canapés in the form of open minissiplanning to the sign of selection of canapés in the form of open minissiplanning to the sign of selection of canapés in the form of open minissiplanning to the sign of selection of canapés in the form of open minissiplanning to the sign of selection of canapés in the selection of canapé





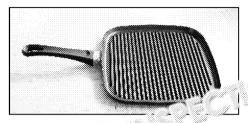
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Zig Zag Education

# Skill 4: Use of the Cooker (Overv

Using your cooker is very important. You need to know how it works to know how Also, it is important whether you have a classic gas cooker, an electric one, or evoven which has real flames is different to one which is electric and has an internal

### Equipment



Used for good or dry-frying meats and vegetables on a cooker



Oven grill
Thick metal wire installed at the top or bottom of an oven. Used for grilling the top surface of pizzas, frittatas, crème brûlée, etc.



Gas cooker
Used for cooking with the use of a flame made by burning gas.



### Health and safety (Tips to remember!)

- Cooking means working with heat. Make sure you wear an apron, especial likes to sputter.
- Use oven gloves or mitts to avoid burning.
- When frying, make sure the food is dr. (if pos it e), as water will splash
- Before using a cooker, try to reaction anufacturer's instructions, as each





# Skill 4a: Use of the cooker (using the grill) – Green vegetables, cheese, nuts and see

Grilling: applying dry heat to food by the use of a grill pan (grilling over under heat).

**Barbecuing:** applying dry heat to food with the use of a barbecue grid, a burning charcoal.

### Instructions for grilling meat and fish

Grilling meat and fish is one of the easiest ways to pe a tasty, healthy dish. It the grill section in the oven or on a grill paper and its tasty.

### To grill fish or meat:

- 1. Prepare he is a simeat for grilling wash it, trim it, remove scales and bat sh and meat cannot be grilled.
- 2. Preh and dish you're going to use whether that's a grill pan or a grill
- 3. Place the food in the hot dish and over the grill (if using an open fire bar an oven).

As different manufacturers have different safety requirements, some ovens have some need to be open. Follow the instructions specific to your oven to obtain the

### Alternative methods

Use a barbecue to obtain a smoky aroma.

### Instructions for grilling vegetables

Vegetables consist mostly of water, and for that reason you need to pay extra attention to them when grilling, as they will tend to leak juices and stick to the pan or baking tray.

To make sure vegetables grill evenly, cut them into same-sized pieces. Courgette can be sliced, bell pepper cut into quarters, and cherry tomatoes should be left whole.

### Extra tip:

Some vegetables will not stick if marinated – sprinkle or topic some oil on courge sticking.

### Alternative methods

You can wrap yet it is has onion, in aluminium foil and place directly on the even if it over a second will still be able to eat it, as it will create a nice chutney

### Extra tip:

To easily and evenly spread oil and herbs on vegetables, put them in a plastic bashake.

# 



### Instructions for grilling cheese

Grilled cheese is a lovely treat, which can be eaten separately, on toast or sprinkled on various dishes. It is important to choose the right kind of cheese, as some of them will melt too quickly and create a sauce instead of, well, grilled cheese.

- You can grill some cheeses like camembert (in one piece, uncut), smoked cheeses, mozzarella, halloumi, talleggio and feta. Soft goat's cheese can also be grilled, but only for a short time, as it melts quickly. Tofu can be grilled, as it is low in fat and will maintain the texture.
- Cheeses like Cheddar or Gouda should not be grilled, as the fat content is very high and will turn them quickly into sauce.
- Cut the cheese into thick, even slices and so exectly on the grill pan.
- If using a barbecue, place the chrome a pecial aluminium tray to prevent it from falling internal second.

### Extra tip:

Grilled cheese will go nicely with onion chutney and redcurrant or cranberry sau

### Alternative methods

If you wish to grill high-fat cheeses like Stilton or Cheddar, put them on a piece of into a bowl. They will melt and create a yummy sauce.

### Instructions for roasting/toasting nuts and seeds

Toasted seeds and crushed nuts make a great and tasty addition to baked goods

### To toast seeds or nuts:

- 1. Preheat a dry-frying pan it has to be very hot before putting any food in it.
- 2. Sprinkle the seeds over the hot frying pan.
- 3. Leave for 20 seconds and stir (or shake the whole pan), as leaving the seeds for too long will cause them to burn on one side and be raw on the other.

Such prepared pumpkin or sunflower seeds can be sprinkled on top of a cream soup or salad, crushed nuts can be sprinkled on top of a stir-fry or desserts. Roasted nuts and seeds may also be blended into a futter.

If you plan to sprinkle a bread or cake with sace is sraw, use raw ingredients be they will toast anyway.

### Extra tip:

You can als /tcast nuts and seeds in an oven on a clean, dry baking tray line

# 



# Skill 4b: Use of the cooker (using the oven) – Babonian braising

**Baking:** applying dry heat (usually in an oven) to foods which have a non-cooking

**Roasting:** cooking foods which are solid in an oven or over an open fire **Braising:** a cooking method in which food (typically meat) is first fried to seal the closed container.

### Instructions for baking (muffins or cakes)

Baking is easy if you abide by a couple of rules

- Make sure the oven is prebable to the correct temperature. This can be ovens which have not the correct temperature probes. Use a special thermore.
- Put the aker the sin the oven only once the correct temperature is re-

### Exception! even doesn't have to be hot when inserting a yeast cake, as it

- If your oven is fan assisted, you may want to either turn the temperature down or change settings.
- When filling the baking tray or muffin form, choose the correct size (as indicated in the recipe) and never overfill them. Fill only about ¾ of the form, as the dough will rise and possibly spill out (and burn) if there's to much of it.
- If your form is larger than in the recipe, reduce cooking time. If it is small heat will have to penetrate through a thicker layer of batter.
- Do not open the oven unnecessarily. This will let cold air in and may caus

### Alternative methods

Always check the recipe to look out for possible modifications. Most recipes are ovens and, therefore, the cooking time is longer. If you use a fan-assisted oven, to and/or reduce cooking time. As each oven is different, try to experiment with you changes need to be.

### Instructions for baking (casserole or tagine)

A casserole is a kind of a stew which is baked in the oven, usually in a lidded contwhich is baked in a special clay dish called a tagine, which is a dome-shaped lid

Casseroles and tagines are usually belian to a long time (usually a couple of hour

- Make sure there is enable in the dish, as the water will evaporate
- Also, the tem solve usesn't have to be high, as it would turn the whole time.
- Alwasse a lid to cover the food before putting in the oven, as it will keep
- Remove the lid 15 minutes before the end of baking to create a crispy to

### Alternative methods

If you don't have an oven, you can prepare a casserole on a hob, using a very small simmering. Make sure your dish is deep and tall, rather than wide and broad.

# 



### Instructions for roasting (potatoes and vegetables)

Crispy roasted potatoes and vegetables are an indispensable part of a Sunday roas

It is important to choose the right kind of cooking oil, as some of them will create a crispy surface while others will make the food greasy and unappetising. The traditional choice is goose fat, a more modern approach suggests sunflower oil. Unrefined raw oils are not good for cooking (although they make lovely dressing)

- 1. To create a crispy coat, preheat the oven and place the baking tray with
- 2. Cut the potatoes/vegetables into even pieces –small rather than large, a outside and be still raw inside.
- 3. Remove the tray from the oven and place \*' \* fo fin the hot oil. You will fry.
- 4. Turn them over to cover and he the oven.
- 5. Usually or in the enough for roasting vegetables and potatoes, but a kind oven you use.

### Extra tip:

If you want to use less oil, put vegetables, spices, herbs and the oil into a plastic over the baking tin — in this method you don't have to preheat any oil in the tin; the vegetables after 10–15 minutes as they are more prone to sticking to the dis

### Alternative methods

Some people suggest blanching potatoes before roasting, as this way they will so

### Instructions for braising meat

Braising is a cooking method which uses two other methods: frying and stewing.

- 1. First, choose what meat you want to braise.
- 2. Whether it is one large piece or small chunks, pat it dry with a paper towel. When put into hot oil, water will sputter and possibly burn you, so drying the meat is important.
- 3. Preheat the oil in a frying pan.
- 4. Fry the meat lightly on each side to seal its surface and keep the juices inside.
- 5. Now, place the fried meat in a lidded dish, add vegetables and some stock, cover and stew for a couple of hours.

Stock will prevent it from burning, while vegetables was orten and create a sauce

### Extra tip:

- → Instead of stack \ ' v \ Ise water, beer, cider or wine.
- ightarrow If you recover the meat in oil first, you won't have to worry about it drying  ${f c}$

### Alternative methods

You can also braise the meat in a deep, lidded saucepan on a hob. Turn it over freevenly cooked.

# 





## Activity 4.1: Meaty discussion

Task 1

Many supermarkets offer a selection of aluminium dishes designed for barbecuil three disadvantages of using them.

Advantages	Di
	, - · · · · · · · · · · · · · · · · · ·
	Dis

Task 2

From the meat cuts below, tick those which are best suited for braising.

blade chuck	sirloin	
tenderloin	skirt	
short rib	brisket	



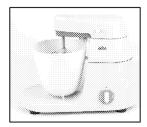
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# Skill 5: Use of Equipment (Overv

Using the kitchen equipment correctly is important for safety reasons and helps Remember that many kitchen utensils are electric and need to be dealt with pro-

### Equipment



### Food processor

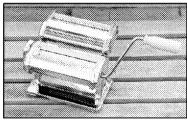
An electric real wan intercontrol with places used for chopping and puréeing foods



An ( whi pastry

### Stick blender

A handheld electric tool used to purée and mix liquid foods such as soups and fruit sauces



Pasta machine

A special rolling tool which presses pasta dough into thin sheets and then cuts it into thinner or wider strips

An € warm

### Health and safety (Tips to remember!)

- Ensure the equipment is suitable for your electric sockets, i.e. the applia voltage for the mains supply.
- Always hold the socket when pulling out the plug.
- If the cable is damaged, do not use the appliance
- Keep cables away from working surfaces and was a line possible, tie them the counter.

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Zig Zag Education

## Skill 5a: Use of equipment – Food processo

### Instructions for using the food processor

Food processors are usually used to chop, mix, shred, mince or purée. They often which make them truly versatile. A good food processor will replace the grater, be mixer, kneader and many more kitchen appliances. The usefulness of a food proof its bowl.

- Make sure your food processor is suitable for your electric sockets, i.e. to voltage for the mains supply.
- The blades are usually very sharp. Make sign to so cat yourself when put food or cleaning the bowl.
- Do not put very hot food to the hard as it will dull the knives.
- Always use a lid to prashing the food around, especially when
- Following manufacturer's instructions on how to change the attachment and addifferent functions of the food processor.
- Use pulse mode to chop tougher foods, like biscuits, nuts or seeds, as the continuous setting may cause damage to the motor (and turn them into butter).
- Make sure your device is powerful enough. A good food processor will be
   650 W or more.

A food processor will help you to produce purées, smoothies, cream soups, dips, vegetables for a salad, nut butters, pâtés and many more.

### Alternative methods

Each part of a food processor can be replaced – either by a simple knife, grater, be method will (usually) take more time.

### Instructions for using a stick blender

Stick blenders are very handy when you need to blend a large amount of liquid a food processor can only hold so much liquid). To use a stick blender:

- 1. Attach the blending end to the motor part of the blender and make sure (usually there is a button that will click when the two parts attach to each
- 2. Plug the cable to an electric socket make sure you can reach the sauce
- 3. Place the saucepan on a non-slip surface; for a like a damp kitchen common Make sure the saucepan (or jar, or and the reduce) is tall otherwise the common surface.
- 4. Holding the stick blender in the food is not too hot, as high terms the bottom, the better a large sure that the food is not too hot, as high terms are successful.
- 5. Press the power of or on the blender to start blending the food. Make sauther as a therwise it may spin together with the food and splash it as
- 6. Molander around to make sure all food pieces are puréed/blend
- 7. Turn off the blender (usually it's enough to stop pressing on the button)
- 8. Unplug the device before attempting to attach another attachment or tr

Three ways of us zzed.uk/9289r

# 



### Instructions for using the mixer

Mixers usually have three kinds of agitators – whisks, beaters and hooks.

Whisks are used to whisk or cream lighter mixtures, like sponge cake, pancake b

- If you're whisking or creaming a mixture, stop the mixer before adding a ingredients (especially sugar). Small particles of them could sputter up a whisk slot, causing the engine to burn.
- If possible, add ingredients a little at a time rather than all at once, as this
  the mixing easier (and will give you time to react if the mixture is too stiff)
- The mixer can be used to prepare mayonnaise the fast movement of the help to produce a smooth texture.

Hooks are used to knead dough, as for bread, Sun of St., pasta or doughnuts

- Make sure your dough is not too it the can damage the engine.
- Add ingredients slowly a male of me, to avoid the dough becoming to
- Be especially care and some and still with one account to avoid it bursting into the air or sputtering after mix gain.

Beaters are used to prepare stiffer mixtures, like butter creams, cheesecakes, pâ

### Alternative methods

- You could use a whisk or a wooden spoon to prepare most dishes, but it will
- All you need to knead a dough are your hands.





## Skill 5b: Use of equipment – Pasta machine and

### Instructions for using the pasta machine

Pasta machines will help you to produce pasta of various shapes and thicknesses you make dumplings, tortellini or ravioli.

- The first step is to prepare a dough. Use a mixer or knead it yourself to obtain a springy, elastic dough. The most basic recipe is to knead 100 g of plain flour with egg – if too stiff, add a tiny bit of olive oil or water.
- 2. Allow the dough to rest for 20 minutes. During that time, the protein fibres will create a spongo like after net.
- 3. Make sure that the dough is a could stick to the machine and edifficult to remove.
- 4. Cut the journative smaller pieces one shouldn't be larger true palm of a hand.
- 5. Use sasta machine to roll the dough.
- 6. Choose a proper attachment and cut the flat dough into the desired shape

You can now either dry the pasta or cook it.

### Alternative methods

- Instead of kneading the dough in a mixer, use your hands.
- Pasta can be rolled with a rolling pin, although this requires some practice, appin.
- If you don't want strips, try to cut different shapes with cookie cutters or will pasta can be stuffed and glued together to form dumplings, while the square or tortellini.

For more machine zzed.uk/







### Instructions for using the microwave oven

Microwaves are excellent for quickly heating up foods which would take much means. The microwave works by heating up water molecules, which warm up and be the kinetic energy of water molecules is then transmitted into other molecules in

For this reason, microwaves can only be used to heat up relatively moist foods – vegetables and fruit.

- The microwave can NOT be used with dry foods (like bread), as it will make
- High fat foods, like croissants, will easily burn in the microwave.
- Do not use aluminium foil in the microwave the waves will bounce back hazard (if you do, you will see small flashes of lighting, and crashing noise microwave...).
- Also, make sure the plate or bow', see plain and has no shiny element or writing). Do not use make allowed, plates or cutlery. (for the same reason)
- The smaller the search of the less time needed to heat it up.
- Regrestive for a stir the food to avoid cold spots.
- Do la nome an empty microwave, as it may become damaged.
- Make sure your plate or bowl is microwaveable some materials could in
- Use a special lid when microwaving liquids, as they like to sputter. The lid to allow water evaporation and prevent unnecessary increase in pressure
- If you don't have a lid, use microwave safe cling film, leaving a small ope
- Remember to choose the proper settings it is better to use lower power power for a short time, as the food may burn on top and stay ice cold on
- Always remove the dish wearing mittens or kitchen gloves, as it is likely to (unfortunately, even if the food inside is not).

Microwave ovens can be used to cook fresh and frozen vegetables, fruit, beans, may be cooked in a microwave, as long as the proper amount of water is used.

### Extra tip:

Microwave block butter for 10–15 seconds to make it soft and spreadable!







Not microwave-safe

Look விர்ட்சியில் signs (may differ slightly on some d வீரிம் check whether a dish is suitable for microwa



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## Activity 5.1: (Not quite a) spaghetti wes

### Task 1

Using a food processor, prepare a pasta dough. Here's what you will need.

- 400 g semolina / Italian 00 flour
- 4 large eggs

How did it go? Identify two positive and two negative aspects of the process.

Positive	

Divide the doubling in the principle.

### Task 2

Roll the dough using different methods, as described below. Note down your obsequences so that each group works with different settings).

	Observ	/atic
	Before cooking	
<b>Dough 1</b> Roll with a wooden pin until thin; cut into tagliatelle and cook.		
Dough 2 Roll using the thinnest setting of the pasta machine only; cut into tagliatelle and cook.		
Dough 3 Roll using the 4 <sup>th</sup> thinnest setting of the pasta machine, and then the 3 <sup>rd</sup> and 2 <sup>nd</sup> until the desired thickness is reached; cut into tagliatelle and cook.		
Roll using the wides such on the pasta mached lengthe narrowers until the desired thickness is reached; cut into tagliatelle and cook.		
What conclusion can you draw from tl	his experiment?	

# 



# Skill 6: Cooking Methods (Overv

Choosing the right cooking method is crucial, as it will help to produce the desire the nutritional value of the food. This skill focuses on various cooking methods, to food's appearance, texture and nutritional value, as well as safety.

### Equipment



Mv'a e Camer

≥-storey cooking device hich steam circulates around, sing the foods to cook. Very useful when cooking various kinds of food at the same time



Deep

Deep dish with a deep-fry chips, on and many @



Wok

Deep, round pan used to prepare stirfries and other dishes



Non-s

Non-stick pan grilling a

### Health and safety (Tips to remember!)

- Make sure not to burn yourself or anyone else.
- Wear a kitchen apron and mittens.
- Do not put very wet foods into hot oil always pat them dry beforehand
- Do not leave the food unsupervised, as it may easily burn.
- Do not put hot dishes (saucepans, frying pans or baking tins) directly on the





## Skill 6a: Cooking methods – Water-based meth

Steaming: cooking with the use of steam, usually in a steamer

Boiling: cooking in a large amount of water

Simmering: cooking for a long time in temperatures below boiling point

**Poaching:** cooking by simmering in a small amount of liquid; such as water, juice, we eggs, it means cooking without the shells

**Blanching:** preparation method in which food is placed in boiling hot water for a scold water

### Instructions for steaming

Steaming is one of the healthiest cooking method. Design steaming, convection expand and rise. Once on top (and furth stips) the heat source), the vapour coopering steaming, the food has a congat with water, so the vitamins and mineral draining. Steaming also a state at, so the dishes are low in calories and easy to many bowl sale time and energy, as many foods can be cooked at the same

### To use a steamer:

- 1. Pour cold water into the bottom pan follow the manufacturer's instructions as each steamer works a little differently.
- 2. Place the perforated pans with food in on top of the water-filled one.
- 3. Cover the whole construction with a lid.

Also, there are a couple of rules to obey:

- Meat or fish should be placed in the pan directly above the water (at the should be thawed before cooking.
- Above meat/fish, there should be potatoes or harder vegetables. Vegeta frozen.
- More delicate vegetables should be placed in the top pan.
- Make sure to cut the foods into even pieces to allow even cooking.

### Alternative methods

Use a large metal saucepan and place a metal or silicone colander on top. Cover with a lid or a ceramic plate.

### Instructions for blanching

Blanching is a preparation method used a pre

- prevent vegetables and fours from prowning
- help peel veget so so has tomatoes
- pre pre pegal places and fruit for freezing

Vegetables that need to be blanched include artichokes, asparagus, green beans broccoli florets, Brussel sprouts, shredded cabbage, baby carrots, cauliflower flo aubergines, mushrooms, okra, onion rings, mangetout, potatoes and parsnips.

You can blanch vegetables using either boiling hot water or steam. See skill 3 for

# 



### Instructions for boiling

Boiling means cooking in a large amount of boiling water. The food is placed directly by convection currents. Boiling doesn't require the addition of fat, so the dish cunfortunately some of the micronutrients easily dissolve in water, which is then of the food is lowered. Also, most vitamins are degraded in hot water.

### To boil vegetables or potatoes:

- Use as little water as possible they will cook by steam anyway.
- Put them into already boiling water putting vegetables into cold water increases cooking time and vitamin loss.
- Do not use aluminium pans, as they increase vitar bss as well.

### Extra tips to reduce nutrient loss:

- → Use the water from boiling racious at vegetables to make a soup, stew or
- $\rightarrow$  Don't cut the food c of -1/—large dice is OK.
- → Use a crossopressure and shorten the cooking time.

### To boil rice:

- Measure the rice and use twice as much hot water (i.e. a cup of rice = 2
- Add dried herbs (optional).
- Cover with a lid and leave for 10 minutes.
- After that time, check whether the rice is soft, and add some water if ne
- When the rice is ready, season to taste.

### Extra tip:

If you don't want the rice to be sticky, pour some oil or butter into the saucepan for 2–3 minutes. Add the correct amount of boiling water afterwards.

### To boil pasta:

- Pour a lot of water into a saucepan and boil (usually 1 l per 100 g of past)
- Add a pinch of salt and a spoonful of oil it will prevent the pasta from s
- Place the pasta in the water and gently stir to prevent it from sticking to
- Follow the manufacturer's instructions as to the cooking time some pa others may need as much as 20 minutes.
- Each 100 g of pasta requires a litre of water to cook properly otherwise

### Extra tip:

- → Pasta is rich in starch, so you can use some of the water to thicken your sau
- ightarrow If you don't add the oil, the sauce will stick better to  $\sim \epsilon$  asta after cooking



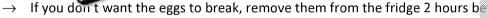
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### To boil eggs:

- 1. Take a large saucepan so that the eggs have enough room and don't hit
- 2. Pour water into the saucepan and heat it up there has to be enough we completely.
- 3. Put the eggs into warm water not hot, as they could easily break.
- 4. Wait until the water boils.
- 5. Lower the heat to a gentle simmer, as a very hot temperature will cause like.
  - For soft-boiled eggs, boil for 2 minutes and remove from the waimmediately. Extend the cooking time to 3 minutes for very large.
  - For semi-hard boiled eggs, boil for 4 minutes, remove from the water and place in cold water for 10 minutes (extend to 5 minutes for very large eggs).
  - For hard-boiled eggs, however, remove from the water and place is accessed for 10 minutes to cool down (extend in the place for very large eggs).

### Extra tips:



ightarrow To easily peel boiled eggs, crack the shell slightly and put the egg into cold w

### Instructions for simmering

Simmering is a traditional cooking method used to prepare soups, stews, curries the food is cooked for a long time just below the boiling point. Simmering is also root vegetables, as it allows them to cook evenly throughout.

### To simmer a stew:

- 1. Fry some chopped meat (pork, chicken, lamb, beef) in a small amount of oil to seal.
- 2. Place in a deep container.
- 3. Add vegetables (like chopped onion, carrots, mushrooms) or other ingredients (such as bacon, dried herbs).
- 4. Pour in a glass of water, wine or another liquid.
- 5. Bring to the boil and lower the heat.
- 6. Cover with a lid.
- 7. Simmer for 2 hours until the meat is tender and melt-in-the-mouth.
- During simmering, regularly check the amount of liquid add more if the food from burning.
- 9. Season with salt, pepper and fresh herbs.

### Extra tip:

- → Simmering is the best was obtain an essential, rich broth.
- ightarrow Do not add ray and arealready hot simmer, as it will release proteins and

### 

Gas hobs are often difficult to regulate – even on the lowest setting the flame mainture to boil instead of simmering, while turning it down even more may cause place the pan only partially on the burner, so that it doesn't touch it with all its su offset towards the front of the hob, where it could be knocked off.

# 



### Instructions for poaching

Poaching is a more advanced cooking technique used to prepare more tender fo

### To poach fruit:

- 1. Pour some water, juice, wine or syrup into a saucepan.
- 2. Add cloves, cinnamon, vanilla, aniseed or other spices and let infuse.
- 3. Gently heat to around 82 °C use the temperature probe to check that.
- 4. Gently place fruit pieces in the solution and let cook for a couple of minutes
- 5. Once cooked, remove from the pan.
- 6. Filter the liquid to remove pieces of spice and use to prepare a sauce.

### Extra tip:

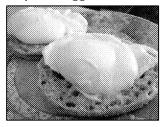
If you used white wine, it can be used to the large of th

### To poach fig

- 1. Pou water, wine, stock or milk into a saucepan.
- 2. Add some dried herbs to infuse.
- 3. Heat up to around 85 °C use the temperature probe to check that.
- 4. Place the fish fillets in the poaching liquid make sure there is enough to cover the whole fillet.
- 5. Cook for about 6–8 minutes, until opaque.
- 6. Gently remove from the solution.
- 7. Use the liquid to prepare a sauce.

The fish needs to be filleted (not whole, just pieces of meat), and NOT breaded of

### To poach eggs:



Poached eggs on toast.

- L. Break an egg into a bowl or a cup make sure no
- 2. Boil water in a deep saucepan.
- 3. Once boiling, reduce the heat to a gentle simmer
- 4. Add 2 tablespoons of spirit vinegar or lemon juic
- 5. Create a whirl in the water.
- 6. Pour the egg straight into the whirl it will help
- 7. Simmer for 3 minutes and gently remove be ca
- 8. Place in ice cold water for 30 seconds to stop from from setting.

The fresher the egg, the better, as the bonds in the egg white are stronger and we eggs will have a nice round shape, delicate white egg wal! ... a runny yolk.

Make sure to remove the eggs from the factorial hours before cooking.

### Extra tip:

- → Usramin posed of water to give the egg an interesting aroma and @
- → You ouse oil instead of water to poach an egg-but be careful, as





## Activity 6.1: Now you're cooking!

You have been asked to prepare a range of dishes for an Italian evening at a local chosen to prepare minestrone soup with rice, spaghetti Bolognese and vanilla ice Look up the recipes and plan your task to include step-by-step preparation of all presentation and serving. Where applicable, identify the water-based cooking me

Step	What I need to do
6	
<b>6</b>	

# 



# Skill 6b: Cooking methods – Dry heat and fat-base hob

Dry-frying: frying in a pan without the use of oil (or any other fat)

Shallow-frying: frying in a small amount of oil (or other fat)

Stir-frying: frying finely chopped foods over high heat while stirring (either pan), usually in a wok

### Instructions for dry-frying

Dry-frying is one of the methods of frying, in which now had ded and so the foothigh temperature may lead to destruction of some less stable vitamins, like a non-stick frying pan, preferably make if coloring or ceramic.

- Dry-frying may require a scalar stirring, as the high heat quickly shorter burns the scalar search as a scalar search as a
- Dry is west applied to foods which already have some amount of formation of the surface and burn instead
- It is possible to dry-fry pancakes add a spoonful of oil to the batter and
- High-fat foods will leak some fat, so dry-frying is actually healthy, as it will food.
- It is also possible to dry-fry fish or chicken. Simply wrap it in baking pape fish/chicken cannot be breaded or battered.
- If you're using a Teflon frying pan, make sure not to scratch it, as damage Teflon releases harmful, carcinogenic substances.

### Extra tips:

- $\rightarrow$  Try to use a grill pan instead of a normal one.
- ightarrow You can also use a spray which will cover the pan with a very thin layer of fa

### Alternative methods

Since dry-frying is very similar to roasting, you can also use the oven to prepare a h

### Instructions for shallow-frying

Shallow-frying is a cooking method which requires a small amount of fat. Various points and smoking points, so it is extremely important to adjust the cooking tended durning of the food). What fat is best for frying, then?

- Butter can be used to fry at low temperatures and for a rather short time as it has traces of protein which tend to burn and your sts smoke point is around 150 °C. Ghee (or clarified butter), a become choice, as the protein is removed from it, and the protein is around 235 °C.
- Unrefined oils, like in involve oil, are not the best choice for frying as the contact of the
- Refile are a good choice for frying, as their smoke point is usually a
- Lard and refined coconut oil also can be used for frying, as their smoke policy high in saturated fatty acids.
- Remember that vegetable oils are high in unsaturated fatty acids, and he temperatures may produce harmful *trans* fats.
- On the other hand, butter, lard and coconut oil are high in saturated fats health either (especially in excess).
- It is best to use fats which have a high content of monounsaturated fatty least harmful substances (if any).

# 



There are also a couple of general rules to obey when frying with fat:

- Never reuse or reheat the fat it is best to collect it in a separate bucket
- Always preheat the fat before adding the food to the frying pan. This way healthier.
- Do not add fresh oil during cooking, as the fatty acids released from the decomposition.
- Remember that frying increases the amount of fat in the food and its call for people suffering from obesity, gall bladder, liver or pancreatic disease

### Extra tip:

Remember that butter, lard and suet contain cholesterol, which is susceptible to flavour of the dish.

### Alternative methods

Dry-frying, roasting and stir ( ) , ma, we considered when planning to lower the

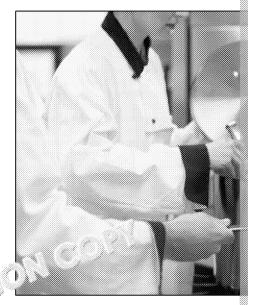
## Instruction stir-frying

Stir-frying is a cooking method characteristic of Asian cuisine. In this method, the briskly shaken or stirred in the pan, which is lightly oiled to prevent sticking. This which requires attention to prevent burning of the food.

- 1. Prepare all ingredients and cut them into even pieces during cooking y
- 2. Use a deep frying pan for example, a wok as during stirring you will no
- 3. Heat it up to very high temperature and add some oil, covering the walls or soy oil is a good choice in this case, as their smoking point is quite high
- 4. Begin adding ingredients start with the meat, and once done, remove to Beef, fish, seafood or poultry is a good choice for a stir-fry, but not pork,

cooking time. Stir the meat from time to time to allow browning.

- 5. Then fry the vegetables, from the most hard (like carrot, broccoli or pepper) to the more delicate ones (like bean sprouts or spinach). Stir the vegetables constantly, shovelling them from one side to another.
- 6. Add the meat and cook for a short time together.
- 7. At the end, add fresh herbs, a sauce, or drizzle with sesame oil.
- 8. Serve fresh, as reheating with cause overcooking the the term read a paid.



### Extra tip

- → If you want your dish to be more aromatic, add spices at the beginning to time. They will infuse the oil, so can be removed before adding other ing
- → If you want to add noodles or rice, they have to be pre-cooked, as there in the wok (and certainly not enough time).





# Activity 6,2: Do you know which side is bu

### Task 1

Complete the table below to suggest one dish/food item that could be made with below using each of the indicated cooking methods. You may also decide that or not suitable for cooking a given ingredient.

	Dry-frying	Shallow-frying	Stir
Fish			
Chicken			
Mushrooms			
Eggs 🚱			
Broccoli			
Tomatoes			

### Task 2

From the fats below, choose and tick those that can and cannot be used for frying Justify your answer.

coconut oil	peanut oil	lard
rapeseed oil	butter	refined olive oil
extra virgin olive oil	goose fat	sunflower oil

I chose the fats above because	



# Skill 7: Prepare, Combine and Shape (

Now that you know all the basic techniques, it's time to introduce the more combingredients in correct proportions will help you when shaping them, as they will during cooking. It is very important to deal with high-risk foods with care to preven poisoning or allergic reactions.

### Equipment



### Sil brush

Special brush used to coat tins with oil or to glaze foods, such as pasties, with egg

### Rolling pin

Wooden, plastic or ceramic device used to roll pastry or dough flat. Some rolling pins can be filled with hot or cold water to help rolling different types of pastry.

### Health and safety (Tips to remember!)

- Always wash hands before and after handling food especially when deasuch as raw eggs, meat or fish.
- Wash eggs in boiling water for 30 seconds before using, to kill potential be poisoning. This is especially important if you're planning to use raw eggs mousse.
- Always use separate tools and utensils to chop or mix ingredients.
- Remember to use colour-coded chopping boards, and potentially, colour
   This will help to prevent cross-contamination and food poisoning.
- If using any allergens, like eggs, milk or nuts, always mark it in bold on the
- If making two versions of a food one with an allergen and one without separate, clean surfaces, with the use of clean, separate utensils, and have any stage of preparation, cooking or serving.
- Use disposable gloves when dealing him him in the foods or mixing ingred





# Skill 7a: Prepare, combine and shape – Rolling

**Rolling:** spreading a dough or pastry flat with the use of a rolling pin; al a roulade

Wrapping: folding or rolling up a filling or stuffing in a flat sheet of brea a large flat leaf, like cabbage or lettuce

### Instructions for rolling

Rolling is a preparation technique in which a pastry or dough is spread flat in ord flat sheet of pastry is then used to cut out shapes, which ther can be either cook savoury filling or folded in half to create pasties or do in, '... gs. Or simply used whi

### Rolling a pastry:

The best rolling pin for a share a stry is a plastic or silicone one filled with containing pin for a share a stry is a plastic or silicone one filled with containing pin for a share a stry is a plastic or silicone one filled with containing pin for a share a stry is a plastic or silicone one filled with containing pin for a share a stry is a plastic or silicone one filled with containing pin for a share a shar of the pastry and notice in the least in it.

- Spr vu worktop or a large board and the rolling pin with to prevent the pastry from sticking.
- 2. Divide the pastry into a few pieces to make the rolling easier.
- 3. Place one piece of the pastry in the middle of the worktop and flatten with your hand.
- 4. Begin rolling from bottom to top (away from yourself) to make a flat sheet of shortcrust.
- 5. During rolling, turn the pastry a little bit into one direction every couple of strokes to make sure each part of it is rolled
- 6. Once the pastry is 1 cm thick or so, you can cut it with a knife or use a glass or cookie cutters to cut out shapes.

### Extra tip:

Cut as close to each other as possible to spare the crust. Unused crust can be ad but overrolling it will affect the texture, so it's best to avoid wasting too much of

### Rolling a dough:

Dough is usually made with yeast, which makes it elastic. Leaving the dough for & in volume, so it's important to roll it quickly to avoid it overgrowing – overgrown taste and may give a slight yeasty aftertaste. It may also fall during cooking.

- 1. Sprinkle the worktop with flour.
- 2. Cut your dough into four pieces (or more if you have a lot).
- 3. Roll one piece of the dough in flour.
- 4. Spread the dough flat with your hands and the bottom to top.
- 5. Once flat, turn by 90 degrees and and analysis.
- 6. Roll and turn as long as your too tain the thickness you need.
- Now the dough constant of make a pizza, cut out doughnuts from e v ာ ႏွာ့မှy seed paste and roll into a roulade.





### Rolling pasta:

Thinly rolled pasta dough is essential for making pasta, dumplings, ravioli and tortellini.

- 1. Dredge the worktop with flour.
- 2. Place the pasta dough in the middle.
- 3. Roll from bottom to top, turning by 90 degrees every few strokes to ensure the whole sheet has the same thickness.
- 4. Once the pasta sheet is flat and even, you can cut it with a knife to make pasta, or cut out shapes (circles, triangles or squares) to fill with a stuffing and fold together into dumplings.

### Extra tip:

To avoid mess, cover the dough/pastry with cling and enabled dough will not stick to not produce dust.

### Alternative methoda

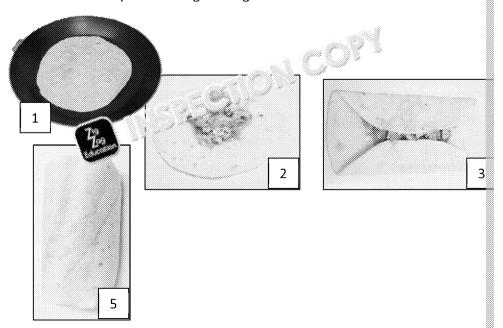
- You can be a gough with your hands or a large glass bottle if no rolling available of undon't have a cookie cutter, simply use a glass.
- A shell dumpling maker will not only allow you to cut out shapes in the doug also fold them together and create a nice fan-like edge.
- To roll a pasta dough, you can use a pasta machine it will not only flatten it also cut it into strips.

### Instructions for wrapping

Wrapping may be more or less difficult, depending on the kind of ingredients you to wrap them as tightly as possible, without tearing the wrap apart, to keep the the amount of filling to the wrap you have — otherwise you will struggle wrapping could spill out during cooking.

### Wrapping tortillas and pancakes:

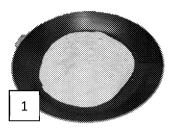
- 1. Warm up the tortilla on a hot pan. It will make it soft and elastic, and les
- 2. Place the filling in the middle of the tortilla, leaving around 3 cm from the
- 3. Fold the tortilla inwards, from the bottom and top.
- 4. Then fold from the left and roll inwards.
- 5. Continue wrapping until the whole tortilla is wrapped.
- 6. If you want to reheat or bake your tortilla, place it with the folded edge unroll all by itself during cooking.

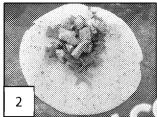




You can also wrap an open tortilla. To do so:

- 1. Warm up the tortilla on a hot pan.
- 2. Place filling in the middle, leaving around 3 cm from the edge.
- 3. Fold the bottom of the tortilla so that it covers the filling.
- 4. Fold inwards the left and right side of the tortilla.







### Extra tips:

- → If y paper sheets for your wraps, put them into warm water
- ightarrow Cov  $lacksymbol{eta}$  led pancake in lightly beaten egg and breadcrumbs and fry to

### Wrapping in cabbage leaves:

Raw cabbage leaves are crispy and break easily, so it is necessary to pre-cook the before wrapping anything in them (lettuce leaves are softer so can be used 'as is)

- 1. Boil water in a large saucepan and place a whole cabbage in it.
- 2. Cook for 20–30 minutes until semi-soft. You want the leaves to be cooke firm, not too soft as they could overcook and fall apart later.
- 3. Remove the cabbage and begin removing leaves, trying not to tear them
- 4. You will notice that there are hard stems at the base of each leaf cut the flat (don't make a hole in the leaf), as they are very hard and would make impossible.
- 5. Once the leaves are prepared, spread them flat and put some filling in. You use meat, rice, whole grains, mushrooms, finely cut vegetables, or whate like.
- 6. Use the technique above to roll cabbage rolls.
- 7. Place tightly in a saucepan, add spices and water, and cook until ready filling should be cooked through.







### Extra tip:

If you add r

co year rice to the minced meat, cook the wraps in a broth, so It will also help to keep a nice shape, as the rice will swell and





# Activity 7.1: Roll your sleeves up!

### Task 1

Your task is to prepare spinach and ricotta ravioli. Complete the table below to id you will need during the process. For each piece of equipment, explain why/how example has been given for you.

Piece of equipment	Why/how
e.g. saucepan	to simmer spinach bef

### Task 2

Prepare burritos with guacamole, beef chilli, cheese and vegetables.  List three things you found difficult:
1
2
3
List two things you found easy:
2
List one thin viin do differently next time:

# 



# Skill 7b: Prepare, combine and shape – S



**Skewering:** pinning the edges together to protect from unrolling or holding wooden or metal pin

### Instructions for skewering

A skewer is useful for holding food pieces together – whether you want to make vegetables on a skewer), a kebab (minced meat baked on a skewer) or a chicken want to make shashliks, and shorter ones to pin together the edges of a meat rolling.

### To skewer a shashlik:

- Cut the food into even pieces. It is a the meat into  $2 \times 2 \times 2$  cm cubes, as the food into even pieces. It is a the meat into  $2 \times 2 \times 2$  cm cubes, as the food into even pieces. It is a few the meat into  $2 \times 2 \times 2$  cm cubes, as the food into even pieces. It is a few the meat into  $2 \times 2 \times 2$  cm cubes, as the food into even pieces. It is a few the meat into  $2 \times 2 \times 2$  cm cubes, as the food into even pieces. It is a few the meat into  $2 \times 2 \times 2$  cm cubes, as the food into even pieces.
- Don't cut the week as so thin, as they will fall off the skewer duration of the skewer duration of the skewer duration.
- St skewer in the middle of the cubes the closer to the edges, the arger the risk of falling off the skewer once the food cooks and softens.
- The more colourful, the better use different vegetables to make your shashlik more appetising.
- Shashliks can be roasted in an oven, grilled or barbecued.
- You can also sprinkle them with a sauce, oil or seeds before cooking.

### Extra tips:

- → Make fruit shashliks, which will be ideal for a dessert.
- → Small shashliks made on toothpicks will make interesting finger food/starte
- ightarrow Use wooden skewers for fruit, but metal ones for meat, as they conduct the



Skewers are also useful when making meat rolls:

- Cut meat chops and beat them flat with them larger, so more stuffing can be put
- 2. Put stuffing at one side and roll.
- 3. Skewer the edges together to keep the stoprevent them from unrolling.

### Extra tip:

Spread some mustard or another sauce on the inside part of the meat to give it a work as a marinade, as mustard is slightly acidic, so which can the meat even more

### Using skewers for making chicker

- 1. Cut the chicken break the pocketing technique.
- 2. Put see start of the pocket.
- 3. Ske eages to secure the stuffing inside and fry or roast.

### Alternative methods

Instead of using a skewer, you can secure the meat with thick cotton thread, eith (make sure you have a sterilised, clean needle to do that), or by simply wrapping

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## Activity 7.2: It's a w(t)rap!

### Task 1

Design a fruit shashlik for a summer barbecue. Draw it below and annotate the pare going to use and why.



Now try and make your fruit shashlik. How did you get on? Were there any f

### Task 2

Prepare chicken rolls with dried tomatoes and pesto – skewer the edges of one of wrap another one with cotton thread, and don't skewer the third one at all. Here

- a large chicken breast
- dried tomatoes in olive oil
- green pesto sauce
- salt and pepper
- wooden skewer
- cotton thread
- meat mallet

Cut the chicken breast three middle slices (the with a meat mallet un salt and pepper, then of dried tomato on top chicken rolls with a we one with a cotton three one. Shallow-fry.

Compare the three chicken rolls. What conclusions can you down from this expe
Ca ·

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## Skill 7c: Prepare, combine and shape – Mixin



**Mixing:** the process of combining one or more ingredients together to obtacoating: to cover a food in a protective or decorative layer, may be applicately cooking

### Instructions for mixing

As mixing is applied to many different food products, you might need to use differing redients for a sponge cake you might need a mixer, while to make a batter for spoon might be enough. Other utensils used for mixing include spatulas, whisks, your own hands (remember to wear disposable glove which using the latter).

- It is important to read the property of the ingredients need to be mixed to b
- If n voury ingredients, like meat and vegetables, make sure out or mince them beforehand so that the mixture is smoother and the flavours can penetrate the mixture.
- When using a mixer, stop the machine before adding any more ingredients, as they could be thrown up and block the mixer slots, damage

### Instructions for coating

Coating can be applied both before and after cooking. It is usually used to change flavour of the food, or as a decoration.

### **Coating before cooking:**

Coating before cooking is usually used to protect the food inside and to alter the texture and flavour.

- Coat in whisked egg and breadcrumbs to make a crispy top applied to meat, fish or vegetables.
- Coat in batter applied to fish and vegetables before frying.
- Coat in flour applied to meat and fish before frying.
- Coat in oil and herbs applied to potatoes, chips, vegetables.
- Coat in oatmeal or corn flakes applied to chicken breast, as it cooks guite fast.

### Extra tip:

If you coat a fish with flour and then in batter, it will stick ther better.

### **Coating after cooking:**

Coating after cooking is usually a ed 3 3 decoration or to change or enhance the flavour of 4 100 at is usually applied to sweets and cakes.

- Corporations or sugar usually on dragees (round or oval convery items with a hard shell), cookies and cakes.
- Coat with a butter icing or cream on cakes.
- Coat with a whipped cream on cakes.
- Coating with chocolate on cakes, cookies, chocolate bars, etc.
- Coating with desiccated coconut, chocolate chips and sugar sprinkles – on cakes and puddings

### Extra tip:

If you add a bit of butter to melted chocolate, it will create a soft coat which will

# 



# Skill 7d: Prepare, combine and shape – Layerin alternatives – Shaping and binding wet



Layering: the process of placing food ingredients on top of each other

Shaping: giving a form to a wet mixture

Binding: gluing various ingredients together, usually with the use of anoth

### Instructions for layering

Layering can be used to prepare both sweet and savoury dishes. It is often used to make foods more appetising, as the ingredients used are very colourful and whole structure looks simply yummy.

- To layer different food in the sauces should be the sauces or other solid foods should place the sauces the sauces the sauces the sauces the sauces or other solid foods should be sauces the sauces of the sauces
- The should not be too liquid, as they will fall to the bottom, soaking food a changing its colour, texture and flavour.
- Notice that the layers are usually in contrasting colours to easily distinguish one from another.
- Wait until the lower layers set before pouring sauce on top.
   Examples of layered desserts are trifle, tiramisu or banoffee pie.
   Examples of layered savoury foods include lasagne, fish pie, shepherd's pie, some salads, etc.



### Extra tip:

You can thicken the sauce with gelatine or potato starch to make it less runny, so the dish.

### Instructions for binding

Wet mixtures are sometimes difficult to bind, as ingredients around the world vary. If a mixture is too dry, it will fall apart during cooking.

- It is best if the ingredients are finely chopped or minced, as the mixture will be smoother and easier to handle.
- If you're mixing raw meat, milk or eggs with your hands, use disposable gloves to prevent cross-contamination.
- The most common binding agents in foods are egg whites, whole eggs and water.

### Alternative methods

If you can't get a lecause of allergy) in savoury reasons to use:

- Constarch or rice gruel
- Wet (soaked) breadcrumbs
- Soy flour
- A finely grated potato
- Silken tofu

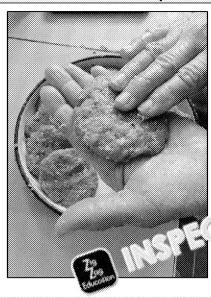
In recipes for sweet di

- Finely crushed
- Apple sauce
- Prune or dried
- Soaked groun
- Pumpkin puré
- Potato starch
- Soy yogurt

**Important!!** The ingredients above will act as a binding agent – but they will not raising agent.



### Instructions for shaping



Shaping a raw food mixture may be difficult, identical to ensure even cooking.

### To shape fish cakes and burgers:

Shape the mixture into a thick roll and cut ever breadcrumbs and fry. Burgers can be fried with

### To shape meatballs or falafels:

Scoop the mixture from the bowl with a scoop with your hand to with flour or breadcrum

### 

spread the meat mixture flat into a 2 cm thick strips. Shape each strip on the metal skewer same size. Drizzle with oil and sprinkle with

### Extra tip:

When shaping raw meat with your hands or a scoop, wet them with cold water to

Remember that raw meat, fish and eggs are high-risk foods – even more so when are finely minced. Thoroughly clean your hands, working surface and all utensils with hot water and soap, and disinfect to reduce the risk of cross-contamination.

### Alternative methods

- To shape burgers, you can also spread the mixture flat and cut out circles was a glass or a cookie cutter.
- To make very small meat balls (or simply leave the mixture for a later use) puthe mixture tightly into a plastic or silicone ice cube tray.





# Activity 7.3: Too many cooks spoil the b

### Task 1

You have been asked to prepare falafels for a garden party. Complete the table keep and/or ingredients used at each step.

Step	What equipment/ingredient
Drain the chickpeas and blend them into a smooth paste.	
Thicken the chickpea paste and bind it.	
Mix the chi	
Shape the falafels.	
Coat the falafels.	

### Task 2

List three savoury and three sweet dishes traditionally made from a number or dishes:

1	
2	
3	
Sweet dishes:	
1	
2	
3	

### Task 3

List foods of the second of th

1	4	
2	5	
3	6	



# Skill 8: Sauce Making (Overvie

Sauce is often the essence of the dish. It not only adds colour, but also taste and with the use of various techniques. When making sauce, it is important to measure obtain the desired viscosity and flavour. The three basic techniques of sauce make reductions and emulsions.

### Equipment

Preparing a sauce does not usually require any fancy equipment – usually a large jug, bowl or pot and a whisk will do. Some sauces, such as pesto, can be ground in a pestle and mortar, or blended with a han a large index.

You may need some extra equipmer and it is and serving the sauce. For some foods, such as pies, it is accessing the gravy in a separate gravy boat.



If you want to make your dish look more fancy, you may find that a simple squirt bottle and a toothpick are helpful. Simply squirt a few drops of sauce around the plate and run the toothpick through them!

### Health and safety (Tips to remember!)

- Make sure not to burn yourself or spill the sauce on yourself or anybody
- Wear an apron and mittens, if necessary.
- Use a saucepan with a thick bottom, as it will transfer the heat more even





## Skill 8a: Sauce making



**Starch**: the complex carbohydrate present in flour and starchy vegetables **Gelatinisation**: reaction which takes place when starch is cooked with wate **Deglazing**: adding liquid to the frying pan or roasting dish after food has

a sauce

Emulsion: a stable mixture of oil and a liquid (usually water)

Reduction: a sauce thickened through evaporation of water, or a method of thicken

### Instructions for starch-based sauces

Starch is the complex carbohydrate in flour. If cooked it waster, the starch gran 80 °C in temperature is reached, the granules treek on the solution the gelatinisation. It is necessary to agitate the burning at the bottom of the salepa.

Starch-base

es a ay be made with different methods.

### Roux:

- 1. Melt fat (e.g. butter) over low heat.
- 2. Once melted, add flour and stir with a whisk into a smooth paste.
- 3. Cook for 2–3 minutes the starch will dextrinise, creating a brown colou. The longer you let it cook, the darker roux you will obtain therefore, briefly cooked roux sauce is called white, 2–3 minutes creates a blond, while a longer cooking time will help to produce a brown roux.
- 4. Remove the saucepan from the hob and slowly add milk (or another liques, water, broth, wine...) whisking/stirring all the time until smooth.
- 5. Place the saucepan on the hob and cook for 3–4 minutes to cook the starch properly.
- 6. Add seasoning or flavouring, if necessary.

### All-in-one sauce:

- 1. Place all the ingredients (fat, liquid and starch) in a saucepan.
- 2. Cook on a low heat, stirring constantly to prevent lumps.
- 3. Once boiled, cook for another 3–5 minutes so the sauce becomes glossy and transparent.
- 4. Add seasoning or flavouring if necessary.

### **Blended sauce:**

The most popular blended sauce is custard. In a blended sauce, there is no fat added – the main ingredients are starch and liquid an acconetimes egg yolk.

To make a blended sauce:

- 1. Mix corn star by a sade liquid (milk, juice, wine... ) into a thick
- 2. Wai the rest of the liquid (you might like to infuse it with vanilla or herbs, depending on whether you are making a sweet or savoury sauce).
- 3. Add the warm liquid to the starch paste, stirring constantly until smooth
- 4. Cook the whole mixture for 5 minutes, stirring all the time to prevent lur
- 5. Remove the sauce from the hob when the sauce has thickened.
- 6. Season and flavour, e.g. with sugar or salt.

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### Beurre manié

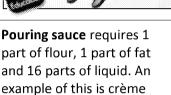
Beurre manié is a French term for a thick paste made of equal parts of flour and to stews, soups and sauces to thicken them up.

- 1. Measure equal parts of butter and flour (e.g. a teaspoon of each).
- 2. Knead them in your hands until smooth and non-sticky.
- 3. Add to the sauce and stir.
- 4. When the butter melts, it releases starch gradually, so there will be no lu

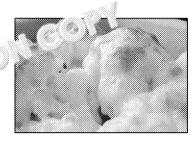
### How starch/liquid ratios affect viscosity of sauces

The most popular starch-based sauces include white sauce, béchamel and velou different viscosity (thickness), depending on the ingredient amounts.





anglaise or chocolate sauce.



Coating sauce requires 1 part of flour, 1 part of fat and 10 parts of liquid. An example is cauliflower cheese sauce.

B o p th

fi

### Alternative methods

- Experiment with various ingredients to prepare a range of different sauces.

  and starch to obtain different results. Remember that the amount of each in
- Sauce may be easily thickened by the addition of grated cheese it will mel
  when cooled down.





### Instructions for reduction sauces

Reduction sauces are made by simmering a sauce for a long time to evaporate the and richer in taste. An example of a reduction sauce is tomato sauce, which is couthe full aroma and flavour of the tomatoes. Curry sauce and gravy also use reduct flavour.

A reduction sauce can also be made by deglazing the liquids left from cooking me frying/roasting them, the food is removed from the pan/baking tray, and a liquid (usually some sediment, sometimes also a little bit of fat, *jus* (juice) or water) in a sauce. The liquid added may be water, white wine, red wine, stock, cream, etc.

### To deglase:

- 1. Fry meat, fish or vegetables in a free and remove them after frying (as you want some bits structure and free a non-stick frying pan).
- 2. Scrape the residue.
- 3. Add water, stock or wine.
- 4. Cod short time to reduce.
- 5. Add enhance the flavour.
- 6. Add seasoning and flavouring if necessary.

It is best to prepare reduction sauces in wide frying pans, as the surface will be lavevaporate faster.

### Extra tip:

By stirring constantly, you will obtain a smoother texture.

### Instructions for emulsions

An emulsion is a stable mixture of fat and water. As fat particles are water-hating water, creating an oil layer on top of the mixture. To avoid that, an emulsifier mix Examples of emulsions are mayonnaise and hollandaise sauce (water-in-oil emulsions). In mayonnaise, the basic ingredient is oil, while in hollandaise it is but with egg yolk, which contains a natural emulsifier — lecithin. The lecithin helps to fat molecules are spread evenly throughout the whole sauce.

### To make a hollandaise sauce:

What you need:

- 230 g butter
- 2 egg yolks
- 1 teaspoon lemon juice
- salt
- pepper
- saucepan
- hlea
- hia by or a jug for mixing.

- 1. Melt butter in
- Whisk egg yol
- 3. Add the melte constantly wh
- 4. Add a spoon of pouring in all
- 5. Season with se

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In this sauce, the lecithin is an emulsifier, but proteins from the yolk are also denatured and coagulated with the warm melted butter, which additionally stabilises the mixture. This sauce should be served fresh, as keeping it warm for a long time enhances bacterial growth.

### To make a mayonnaise:

### What you need:

- 2 egg yolks
- ¼ teaspoon salt
- ½ teaspoon sugar
- 1 teaspoon mustard
- 1 tablespoon vinegar
- 1 glass of oil
- Mixer
- high bowl or jug for mixing

- 1. Put egg yolks into a bowl.
- 2. Add vinegar, salt and must
- 3. Mix until smooth.
- Slowly begin adding oil d by drop to reduce the risk of curdling.
- 5. Once half of the oil require
- 6. Whisk in the rest of the oil.
- 7. Store in a closed jar in a fri

### Extra tip:

- → If the mayo curdles anyway, + 3 e couple of ways to save it:
- → Mix a new egg yolk with I new ingredients and slowly add the spoilt may
- → Put it into a for all or all minutes, remove and mix again.
- → To to duing in the future, make sure the ingredients have the same

An example of an unstable emulsion is a vinaigrette sauce (salad dressing). It is useful of an acid (lemon juice, balsamic vinegar, etc.) and herbs and spices. They are over the salad immediately, as leaving them to stand would let them to separate

### To make a vinaigrette you need:

- 1 tablespoon lemon juice or vinegar
  - 4 tablespoon of olive oil
- salt
- pepper
- 1 teaspoon mustard

### Extra tip:

Make your vinaigrette in a jar or squirt bottle. Simply put all the ingredients inside you can store the sauce for some time in the fridge – remember to shake it well

Place all the in







## Activity 8.1: Sauce parlour

### Task 1

Your task is to prepare roux for three types of sauces: white, blond and brown. Policy (25 g each) and three portions of flour (25 g each). Measure the time needed to policy discuss in class the process that causes the change in colour.

	How long does it take to obtain the
White roux / sauce	
Blond roux / sauce	
Brown roux / sauce	



### Task 2

Split into three groups. Each group will have to prepare a simple tomato sauce (s size of saucepan. Each group will have to measure the amount of sauce at the be every 15 minutes for as long as the sauce is cooking. Compare the results of each

- 1 large onion, finely diced
- 1 medium carrot, finely diced
- 2 celery stalks, finely diced
- 400 ml tomato passata
- 200 ml vegetable stock

Sauté the diced vegeta saucepan. Sprinkle with add tomato passata a volume of the sauce (e. Simmer on low heat fo

	Volume of the sauce		
	At the beginning	After 15 minutes	After 30 minutes
Group 1			
Saucepan			
diameter 10 cm			
Group 2			
Saucepan			
diameter 15 cm			
Group 3			
Saucepan			
diameter 25 cm			

What conclusions can you draw from thir imak?			



# Skill 9: Tenderise and Marinate (Ov

Food products, especially meat, need to be tenderised to make sure they are soft be done by chemical or mechanical action, or by cooking for a long time at low to flavour and moisture to the food, and tenderise it by denaturing proteins. This was tender than non-marinated ones, and create a melt-in-the-mouth feeling.

### Equipment

Meat hammed Ameavy tool used to a beating. It may be a wood, plastic

You may also that **cling film** is quite useful, as in many cases you need to cover some time to allow the marinade to do its magic.

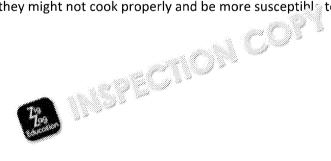
Remember that raw meat, poultry and fish, whether marinated or not, have to be

Various types of meats will require different marinating times for best results – u

Type of meat	Ma
Fish	up
Chicken	2 6 2 1
Pork	(
Beef and lamb	
Venison	1.

### Health and safety (Tips to remember!)

- Make sure not to beat your own fingers when hammering meat cuts.
- Thoroughly clean the meat hammer after use to prevent cross-contamination poisoning or allergic reactions.
- When pasteurising marinated foods, make sure the water reaches ¾ of they might not cook properly and be more susceptible to spoilage.





## Skill 9a: Tenderise and marinat



**Tenderising:** making softer by beating or cooking on low heat for a long **Marinating:** soaking in a marinade to denature proteins, alter the flavour

### Instructions for tenderising meat and poultry

Meat and poultry can be tenderised in three different ways:

- By cooking for a long time at low temperatures (stewing and simmering)
- By beating with a meat hammer to soften the structure and break up muse fibres
- By marinating in a solution of acid or salt

### To tenderise with the use of a manage is a series.

- 1. Slice the meat in approximately 1 cm thick.
- Spreamen (2) Sprea
- 3. Such prepared meat can be filled and rolled or coated with egg and brea

### Extra tip:

Before beating, cover the meat with foil or waxed paper – this will help you keep

### Alternative methods

If you don't have a meat mallet, try to use a glass bottle, or a plastic bottle filled

### Instructions for marinating meat and poultry

Marinades are usually made of a fat, an acid, and a selection of herbs and spices. The marinades alter the colour, taste and aroma of the food, keep the moisture inside making it more juicy, and denature proteins, which makes the meat less chewy.

Marinades are also a source of nutrients, such as unsaturated fatty acids or polyphenols (antioxidants in herbs and spices). They often help digestion and prevent heartburn or bloating. Marinades also shorten the cooking time.

- Fat in marinades covers the surface of the food and prevents it from drying out during cooking. The oil is then responsible for the juicines from rapeseed oil, olive oil, coconut milk, yogan. The termilk.
- Acids in marinades denature protein in the subject the meat. At the same penetrate the meat, making the same vinegar, balsaring and processing account of the meat and pulce. The most compare vinegar, balsaring are protein juice, wine, or lactic acid from butter than BE and the meat which are also slightly acidic.
- Help spices infuse the meat and alter its colour, taste and aroma. The aron ingredients are garlic, onion, shallots, salt, soy sauce, chilli, lemonth in the spices infuse the meat and alter its colour, taste and aroma. The aron ingredients are garlic, onion, shallots, salt, soy sauce, chilli, lemonth in the spices infuse the meat and alter its colour, taste and aroma. The aroma is a spice infuse the meat and alter its colour, taste and aroma. The aroma is a spice infuse the meat and alter its colour, taste and aroma. The aroma is a spice infuse the meat and alter its colour, taste and aroma is a spice infuse the meat and alter its colour, taste and aroma.

  Output

  Description:
- Some marinades contain sweet compounds, such as sugar, treacle or hor caramelise and react with proteins, creating a brown colour and appetising
- Some types of fruit can also be used in marinades, as they contain enzymeat. These enzymes are called proteolytic, and are present in such fruit pineapple (bromelain) or papaya (papain). Do not use them in marinades as they could coagulate them.

# 



### How to marinate meats and poultry:

- Red meats such as pork, beef or venison need to be marinated for longer meats are tougher than poultry (which usually needs up to 3 hours). The shorter the time needed for marinating.
- Remember not to use too much salt, as it will cause the water to leak out
- Do not use metal boxes or containers for marinating, as they could react
  Also, do not use plastic boxes, as these can easily become discoloured an
  ceramic containers are best).

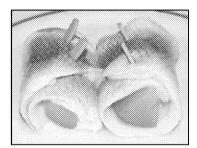
### Instructions for marinating fish

Fish and seafood cannot be tenderised with a mallet, as the process results are usually very delicate. The aim of marinating them the according and flavour, and prevent drying during cooking the process denaturation is a side effect, as fish meat does and the softened.

When marinating fish, it is a mark to maintain the ratio between oil and acid – late the same an acidic environment for too long will cause it to armating fish in acid (e.g. lemon juice) is applied in ceviche – a day popular in Latin America.



The most popular ingredients in fish marinades are white wine, lemon juice, lemon zest and lemon grass, as they complement the flavour of fish or sea include fresh parsley and dill.



It is enough to marinate fish for just 30 minutes, lead to a change in texture.

Some fish, like herring, can be marinated in spiritand served in salads or in canapés. This is especial Eastern European countries (the rolled, marinate)

### Instructions for marinating meat alternatives

Tofu, paneer and other meat alternatives can also be marinated. Sliced or diced for approximately 2 hours to obtain the desired flavour and moisture.

Marinated meat alternatives can then be prepared as usual – fried, baked, adde

### Instructions for marinating vegetables and at

Marinating is a good way of preserving failt and vegetables for winter, and is also produce used needs to be close and in each, without any signs of spoilage, as it could

### To marinat at at les.

- 1. Put garlic, bay leaf, black peppercorns or other spices in a glass jar.
- 2. Tightly pack the vegetables in the jar.
- 3. Pour over a solution of salt, acid and water sometimes with other ingredients, like honey or sugar.
- 4. Close the jar.
- 5. Put into a saucepan with hot water and boil for 20 minutes the water needs to reach ¾ of the way up the jars.
- 6. Take the jars out of the water and store in a cool, dark place.

# 



Vegetables will need about a month to marinate – after that time they will be informarinade and still crispy. The most popular marinated vegetables are gherkins, clearness, cabbage, hearts of palm, asparagus, artichoke, bell peppers or courgette

### Extra tip:

Mushrooms can also be marinated this way – although some species will turn the have to be rinsed off before eating.

### To macerate\* fruit:

- 1. Prepare the fruit you can use pears, plums, cherries or peaches.
- 2. Wash and blanch the fruit, remove the pips or stones.
- 3. Pack them tightly in a glass jar.
- 4. Pour over a solution of water, sugar or homey as a vinegar or lemon juice.
  You can also add spices such as rive to innumon, cardamom, etc.
- 5. Close the jar.
- 6. Put the jar into 3 % v \* into water the water should reach ¾ of the water should reach % of the water should
- 7. Boil minutes.
- 8. Remove from the pot.
- 9. Store in a cool, dark place.

The fruit will need about two weeks to infuse, and after that time can be used in meats (e.g. marinated plums), baked cheese (e.g. cranberries), meat pâté (e.g. marinated plums).

### Extra tip:

More acidic types of marinated fruit are best served with meats, while sweet marinated

\*marinating fruit is referred to as macerating.



# 





beef

# Activity 9.1: Don't get yourself in a pick

chicken

### Task 1

It's time to prepare your own marinade! First, choose what are you going to mar

pork			fish	/shellfish
Now list the ingredients	you will use for your n	narinade:		
			<u>.</u>	
A				
necify the time you wil	ll marinade your chose			
pecify the time you wil	Tillatillade your chosel	ii iiigi ediei		
ask 2				C.1. C
ninutes, 30 minutes, 1	g. meat) into four even hour and 2 hours. Cook	k each piec	e and set as	ide until all
	e how the marinade af	fected the	flavour, app	earance an
My food item:	Flavour	Appe	arance	Text
15 minutes				
30 minutes				
1 hour				
2 hours				
Vhat conclusions can y	ou draw from this expe	riment?		
				•••••
•••••				•••••

# 

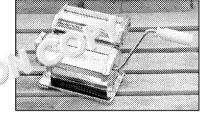


# Skill 10: Dough (Overview)

This skill is designed to help you improve your skills of making shortbread pastry also be able to shape various kinds of baked goods, such as bread rolls or palmie finishing methods used when baking.

### Equipment





### Baking tins

Usually made of metal, sometimes ceramic, baking tins differ depending on the purpose a flan ring is round and shallow, a bread tin will be tall and narrow, while sponge can be made in a round tin to make a torte or a rectangular tin for a roulade.

### Pasta machine

Special rolling tool which presses pasta dough into thin sheets and then cuts it into thinner or wider strips

For handling most of the pastries and dough you will also need flour – this will proyour hands and to the worktop!

### Health and safety (Tips to remember!)

- Make sure not to burn yourself by touching the hot baking tin use mitt
- It is best to wear an apron, as there is a lot of flour involved.
- Handle dough with warm hands, and pastry with cold ones!





# Skill 10a: Dough – Making a dough, shaping



**Shortening:** coating starch molecules with fat to prevent gluten formation **Gluten formation:** a process which takes place when flour is mixed with we (proteins in flour) bond, creating an elastic, net-like structure

**Fermentation**: process conducted by yeast, in which carbon dioxide is produced, a **Proving**: a final step of dough fermentation, during which the dough is left to rest

### Instructions for making a shortcrust pastry

Shortcrust pastry is a thick mixture of flour with fat and a little liquid. It is made when rubbing the fat (butter, lard or margarine) into the starch molecular of fat. After the water is added (mainly to alter the toxage and taste), it cannot particles are hydrophobic (repel the patter) and way the flour has no direct contable formed. Thanks to this. the strip arumbly and crispy after cooking.

Shortcrust 1 biscuits and

cal Le used in a number of recipes, e.g. for quiche,

See past

### To make a basic shortcrust pastry:

What you need:

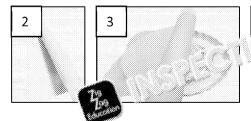
- 225 g plain flour
- 100 g butter or another fat
- pinch of salt
- water if the pastry is too crumbly (about 2–3 tablespoons)
- a rolling pin

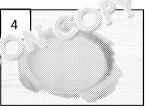
- 1. Sift the flour and salt into
- 2. Cut the butter into small
- 3. If the pastry is too crumb
- 4. Knead gently it is best d
- 5. Wrap the pastry in cling for minutes (this is called residit later in the future.

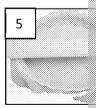
Such prepared pastry should be rolled flat with a rolling pin, chilled in a fridge and filling. Instead of water, you can add egg, egg yolk, cream, sour cream, yogurt, or remember that it will affect the taste and aroma of the pastry!

### To line a flan dish with shortcrust pastry:

- 1. Roll the pastry flat.
- 2. Wrap it around the rolling pin and transfer over the flan dish.
- 3. Unroll the pastry so that it covers the whole dish.
- 4. Gently press it to the bottom and sides of the dish.
- 5. Roll the rolling pin over the edges to cut off excess pastry use it to make crust on top or freeze for later use.







### To bake blind:

- 1. Roll the pastry into a flat, thin sheet.
- 2. Line a shallow baking tin (flan ring) with the pastry and pierce with a fork
- 3. Cover with baking paper.
- 4. Pour over ceramic baking beans.
- 5. Bake at 200 °C until golden (usually about 25 minutes).
- 6. Remove from the oven.
- 7. Remove the beans and the paper and let the pastry cool down.



This technique is used mainly to prepare sweet dishes, as their ingredients often require gelation, but not cooking (e.g. chocolate mousse, whipping cream).

### Extra tip:

If you use small baking tins, you will be able to prepare small tartlet.

### To bake with a filling:

- 1. Roll the pastry into a flat, thin sheet.
- 2. Line a baking tin with the pastry.
- 3. Bake for around 10 minutes.
- 4. Remove from the oven and pour over the filling.
- 5. Bake until the filling sets.

This technique is used to prepare savour 3, me quiche, and sweet ones which require cooking, like apple are.

### Extra tip:

If the edges crust are already brown, but the filling is still raw, you can cover aluminium roil to protect them from burning until the filling is cooked.

### Alternative methods

If you don't have ceramic baking beans, you can use lentils, dried peas or dried be closed container for future use in baking, as they shouldn't be eaten any more.

### Instructions for making a bread dough

Bread is the most basic food around the world – no matter what kind of flour is usefrom Alaska to Japan.

The basic ingredients of bread are wheat or rye flour, water and salt. Traditional of sourdough (leaven), which was made by mixing a small amount of flour with water couple of days. Nowadays, the sourdough is replaced with yeast.

The yeast in bread ferments, producing large amounts of carbon dioxide. The gadough to rise. Bread should be baked at temperatures between 200 °C and 250 °C.

To make it more interesting, you can add various ingredients into the dough (or seeds, crushed nuts, raisins and other dried fruit, and even grated cheese. Some instead of water, which makes the dough more delicate.

Although most recipes are quite simple, the right quite and of time, as the dough of the ground of time, as the dough of the ground of time, as the dough of the ground of time, as the dough of time,



# 



### To make a simple bread:

What you need:

- 420 g strong flour (or mixed strong and rye flour)
- 1 teaspoon of salt
- ¼ teaspoon of instant yeast
- 350 ml warm water





- 1. Mix flour with salt and dried
- Add warm water and mix will little runny and sticky.
- 3. Cover the bowl with a clean 12 hours in a warm place.
- 4. Sprinkle some flour on the word dough onto it.
- 5. Knead gently for a couple of and least to rest for 15 minus
- 7. Heat up the oven to 230 °C d warm up.
- 8. Place the dough in the tin, co
- 9. Remove the cover and bake
- Remove from the oven, place and remove from the tin.
- 11. Let cool on a metal grill to les prevent it from 'perspiring'.

Depending on the shape of the tin you're using, you will obtain various shapes and divide the dough into smaller pieces and create baguettes or bread rolls (the recusually slightly sweet).

If you spread the bread dough flat, you can sprinkle it with various ingredients (like chocolate or mince or cheese) and roll into a roulade, which can be then cut into separate pinwheels.

Bread dough is also used to make pizza base – simply roll flat with your hands or a rolling pin. If you fold the pizza base in half with a filling/stuffing and bake it, you will obtain a calzone.

### To make flatbread:

What you need:

- 120 g plain flour
- 1.5 teaspoons of baking powder
- ½ teaspoon of salt
- 125 ml natural yogurt



- Sift the flour into a bowl, add baking wder and salt and ix.
- 2. "tir in the yogurt.
- Cover with a clean tea towel minutes.
- 4. Divide the dough into four piethick sheets.
- 5. Bake in the oven or dry-fry in

### Extra tip:

Add fresh and dried herbs, spices or vegetable extracts to the dough to alter the



### Instructions for making puff pastry

Puff pastry is most characteristic of French and Mediterranean cuisine, where it spalmiers, tarts and many other recipes. Traditionally, puff pastry is made by fold pastry, but this method is quite time-consuming and difficult. An easier method called rough puff.

When puff pastry is cooked, the butter between the layers melts, so the layers see

### To make a puff pastry:

What you need:

- 250 g strong plain flour
- 250 g cold butter
- 50g melted butter
- 125 ml water
- 1 teaspoon of ν ∈ ω ς
- ½ on salt



- 1. Sift the flouristo a bowl.
- 2. Ad 1/19 of and salt to water and Au 1/2ne water solution and melter until smooth and elastic.
- 4. Wrap in cling film and refrigerate
- Roll cold butter between two laye (try to make it a square shape).
- Wrap the butter in cling film and melting.
- 7. Remove the pastry from the fridge (approximately 20 × 30cm square)
- 8. Place the butter in the middle of it tortilla).
- Roll the whole mixture into a long times longer than it is wide.
- 10. Fold the pastry inside (as if there
- 11. Wrap in cling film and refrigerate
- 12. Remove the pastry and roll again previously, fold and refrigerate.
- 13. Repeat up to eight times (rememble time to prevent the pastry from defined to the pastry from defi
- 14. When the pastry is ready, it can be until golden (usually around 20 m

The raw pastry can be frozen for a couple of weeks.

Do not put the pastry into a cold oven, as the layers will not separate and the fine certainly not layered).

Remember to do all the rolling quite quickly, as the pastry is 'est kept at 16 °C – filled with cold water if you need more time.

If you roll the pastry flat and spring a various of the roulade and slice to obtain a various.

If you cut the your into squares or triangles, you can fill them with jam or fruit and to leave a smoopening for the steam, otherwise it will break the cakes open and

You can also cut the raw pastry into various shapes and bake them 'as is', to cover jelly after baking.



### To make palmiers:

Palmiers are easy-to-make cookies made of puff pastry and icing sugar. They resemble a heart with their shape, so are a good idea for a Valentine dessert.

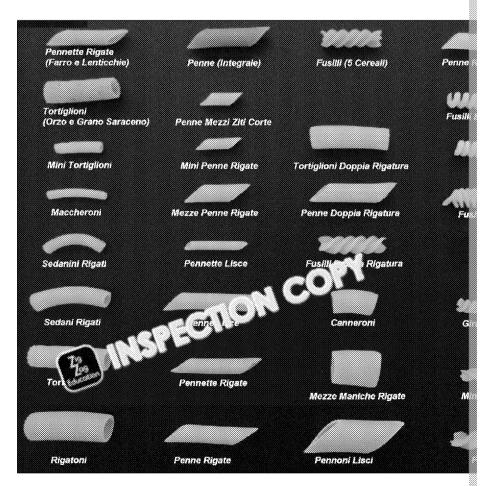
- 1. Roll the puff pastry flat and sprinkle with icing sugar.
- 2. Gently roll the pastry inwards from both ends at the same time, so the two rolls meet in the middle.
- 3. Turn the pastry upside down so that the connection is underneath.
- 4. Cut into even slices (approximately 0.5 cm thick).
- 5. Place the slices flat in the baking tin you can shape them so they resemble hearts even more.
- 6. Sprinkle with icing sugar.
- 7. Bake for 10 minutes at 190 °C.
- 8. Turn over and bake for another 7 minutes at all a den brown (the sugar shiny coating).

### Instructions for mana a pasta

Pasta is a st the por in Italy. Traditionally it is made from flour mixed with water unleavened, as the difference in texture and flavour from bread.

Pasta can be aromatised with herbs and spices, and various colouring agents (e.g. paste) can be used to change its colour. Usually, pasta is served with sauces, in so dough which has been rolled flat can be also used to prepare dumplings, ravioli as

Various kinds of pasta are served and used in different dishes. Larger and thicker thicker sauces, while thin ones may be served as noodles in soups.





### To make pasta dough:

### What you need:

- 400 g plain flour
- 2 eggs
- 160 ml water
- a tablespoon of olive oil
- pinch of salt

- 1. Sift the flour into a large bowl.
- Create a 'crater' in the middle and salt.
- 3. Mix roughly and knead until smoot
- 4. Refrigerate for 15 minutes.
- 5. Divide into 3–4 pieces and leave to
- 6. After that time, roll each piece of a pasta machine until it is 2 mm thick
- 7. Cut shapes.
- 8. Cook in boiling fater with a spoon dry in our ly and store in an airtig

### Extra tips:

- → Replace the wate A A resetable juice, like tomato, spinach or beetroot
- → If you want to use eggs, replace them with an identical amount of
- → If you use warm water, the dough will more delicate and elastic, which n

### To make dumplings:

- 1. Roll the pasta dough flat.
- 2. Cut out circles with a shell dumpling cutter, a cookie cutter or a glass.
- 3. Put filling in the middle it can be anything, from minced meat, through potato and cheese mash, to fresh fruit sprinkled with sugar.
- 4. Fold in half.
- 5. Pinch the edges thoroughly, either with your fingers or with a fork
- 6. Boil in salted water.

### To make ravioli:

- 1. Roll the pasta dough flat into a square shape and cut in half.
- 2. Place filling on one of the sheets, leaving spaces between.
- 3. Place the second sheet of dough on the one with fillings.
- 4. Cut between fillings to make square shapes.
- 5. Press the edges of the squares together.
- 6. Cook in salted water.







### To make tortellini:

- 1. Roll the pasta dough flat.
- 2. Cut into 4 cm squares.
- 3. Place filling in the middle.
- 4. Fold in half to create a triangle, pressing the edges together.
- 5. Fold again around your finger to stick the two points of the triangle toge
- 6. Cook in salted water.









### Extra tip:

- → If you don't plan to cook the dumplings immediately, sprinkle them with towel.
- → Raw dumplings can also be frozen.

### Instructions for choux pastry

Choux is a light pastry used to make eclairs, profiteroles and cream puffs.

### To make a choux pastry:

What you need:

- 125 ml water
- 65 g butter
- 60 g flour
- 2 eggs
- 1. Pour water into a saucepan.
- 2. Once boiling, reduce the gas and add butter.
- 3. Stir until the butter melts and creates a smooth texture (i\* bala be simmering).
- 4. Still stirring, sow; ad flour.
- 5. Mix in the mass until it begins to form a backers of the mass until it begins to form a backers.
  - Put the mixture into a bowl to cool.
- 7. To the still-warm mixture slowly add eggs, standard spoon or a mixer).
- 8. The whole mixture should have the consister.

Such choux pastry can then be piped onto a baking tin and baked at 220 °C until Use a small tip to create tiny baubles the size of chickpeas. After baking, they countries instead of croutons. Use a larger tip to create round cream puffs or rectangular excut in half and filled with cream or fruit. Create round circles to make bagel-like

### Extra tip:

If you're planning to use savoury filling, use lard instead of butter in the pastry.



### Instructions for finishing and glazing

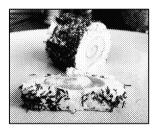
There are various methods which help to make baked goods even better. Most of them are universal and can be used both for sweet and savoury recipes.

### Before cooking:

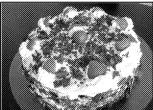
- Raw pastry or dough can be sprinkled with sugar, which will caramelise a create a golden brown, shiny coat.
- Brush with a beaten egg (eggwash), water, milk, honey or butter to make shiny surface. This will also help the topping to stick to the surface.
- Sprinkle on top with crushed nuts, coarse sea salt, seeds or herbs to imp the look, aroma and taste.
- Pipe the mixture onto the baking tin or us week a cutters to create diffe
- Roll with the filling inside and slight ake separate rolls.

### After cooking:

- Du ica Sar, cocoa powder or cinnamon.
- Cov icing, chocolate sauce, cream or fruit glaze (apricot glaze is mostrawperry glaze is made of strawberry jam with water, etc.).
- Fill with filling or pour whipped cream on top.
- Cover with jam or cream and roll into a roulade.
- Drizzle with sauce or vinegar.



Salmon roulade covered with chopped chives



Cake covered with buttercream, chocolate shavings and fruit



Sauce drizzled around panna cotta on a plate



Br⊨





# Activity 10.1: It's time to roll (in) the do

### Task 1

Prepare a basic shortcrust pastry. Divide it into four portions, then prepare and below. Note your observations.

	Observatio
Guidance 1	
Roll the pastry flat, line a pastry	
dish and bake at 180 °C.	
Guidance 2	
Roll the pastry flat and lingr	
dish. Place z i et ಾ ಿ ೬ ್ರೈ paper	
on top and have king beans. Bake	
blind at 18	
Guidance 3	
Roll the pastry flat and line a pastry	
dish. Chill in the fridge for 15	
minutes, then bake at 180 $^{\circ}$ C.	
Guidance 4	
Roll the pastry flat and line a pastry	
dish. Chill in the fridge for 15	
minutes, then place a sheet of	
baking paper on top and use	
baking beans. Bake blind at 180 °C.	

### Task 2

Prepare a simple bread dough (see recipe below). Then divide it into three porticipal guidance below. Note your observations.

•	
<ul> <li>170 g self-raising flour</li> </ul>	Mix the flour with the
● 170 g plain flour	a large bowl. Add the
<ul><li>½ teaspoon salt</li></ul>	smooth dough is form
<ul> <li>½ teaspoon bicarbonate of soda</li> </ul>	greased and floured b
290 ml huttermilk	e for 30 minutes a ا

		Observatio
Follow the recipe above (no		
alterations).	» " 	
Follow the above. Before		
placing the bread in the oven,		
sprinkle the top with water.		
Follow the recipe above. Before		
placing the bread in the oven,		
smear beaten egg on top.		



# Skill 11: Raising Agents (Overvi

Various raising agents are added to a range of sweet and savoury foods for leave when and how to use them, to obtain the desired effect without affecting the fla

The three gases used as raising agents are **air**, **carbon dioxide** and **steam**. They he products. Air is usually incorporated into the food by mechanical action (such as carbon dioxide is produced by yeast or from chemical raising agents such as bakin important role as a raising agent in very wet mixtures and batters.

### Equipment

Raising agents, as the name suggests, cause the forcion increase in volume.

For this reason, you may ne

- a tall boul for the and proving prior to cooking (e.g. for yeast-based double double ads)
- a tal for when you are planning to add bicarbonate of soda and acide to a warm mixture (as the warmth will cause the two substances to reacides)
- a warm place to allow the dough to rise (e.g. near a radiator or a cooker)

Remember not to overfill the baking tins, as the food will increase in volume ever further during cooking – this may cause it to spill over and burn, producing a difficult-to-remove smell.

### Health and safety (Tips to remember!)

Be careful when dealing with hot saucepans, baking tins and other hot displayed in a saucepans baking tins and other hot displayed in a saucepans.



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# Skill 11a: Raising agents – Chemical rais

Chemical raising agents are commonly used in various sweet and savoury recipes. The risen texture without affecting the flavour of the food, and also when the preparation

# Instructions for using baking soda

Baking soda, also known as bicarbonate of soda or sodium bicarbonate, it a white powdery substance. It reacts with acid, releasing carbon dioxide and water. If no used, it will create a soapy taste (as well as when too much soda is used). For this bicarbonate of soda is used in recipes which contain a source of acid, e.g. butter yogurt or lemon juice.

As soda is very reactive, it needs to be a decay the end of preparing a batter/do otherwise all the carbon dioxidal all escape and the batter will not rise properly.

Baking soda aking Irish soda bread, American buttermilk pancakes

# Extra tip:

If you soak a fish in soda solution for 10 minutes, it will not sputter during frying It will also remove the smell of onion and garlic from your hands!

# Instructions for using baking powder

Baking powder is a mixture of a couple of different chemical substances — usually The latter means that baking powder can be used even in recipes which do not could be same as in baking soda. The bicarbonate of soda reacts with ammonium bicarbon dioxide. As carbon dioxide expands, it rises and helps the dough/batter to

Always add the baking powder at the end of the preparation process, as the che and you don't want the carbon dioxide bubbles to escape the mixture.

Baking powder may be used in pizza dough, flatbread dough, pancakes, oatcakes

# Instructions for using self-raising flour

Self-raising flour is nothing more than a plain or wholemeal flour which has been the correct proportions. If you are using a self-raising flour, you don't need any

# To make a sponge cake with self-raising flour:

What you need:

- 125 g butter
- 125 g caster sugar
- 125 g self raising flo
- 2 egg



- 1. Crean surry with soft butter until parties of the palpable.
  - Mix in the whole eggs.
- 3. Turn off the mixer and stir in flour, us mixture is too thick, you can use a little
- 4. Pour the mixture into two 18 cm rou preheated oven for 20 minutes (180 160 °C if fan-assisted).

Remove from the oven. You can spread jam, buttercream or whipped cream on with the other one to make a sandwich cake.

# Extra tip:

If you have a large, flat baking tin, use it to make a large, flat sponge – it can be t





# Activity 11,1; Will your cake cause eyebrows t

# Task 1

From the ingredients below, choose and tick those which could be used in recipe to enable it to produce carbon dioxide.

lemon juice	water		buttermilk	C
chicken stock	milk		sour cream	
yogurt	apple sauce egg yolk			

Task 2

Split into fo ps — each group will have to prepare a simple sponge cake using baked, set up a tasting panel to compare the sponge made by each group. Here's

• 1 cup of plain\* flour

Whisk the eggs with s

1 cup of sugar

3 large eggs

flour and fold in	gently
 Observations	S

			<del> </del>
	Appearance	Texture	Tas
Sponge 1 Follow the recipe above (no alterations).			
Sponge 2 Use self-raising flour instead of plain flour.			
Sponge 3 Add 1 teaspoon of baking powder to the batter.			
Sponge 4 Add 1 teaspoon of baking soda to the batter.			

What conclusion you draw from this experiment?	
	-
	-
	•

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A	in i	

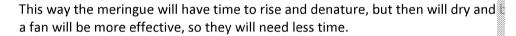
# Skill 11b: Raising agents – Eggs as a rais

# Instructions for using eggs as a raising agent

Eggs contain an egg white and an egg yolk. They are a source of protein. When w and trap air bubbles inside – this is why whisked eggs turn from yellow to cream an air-in-liquid foam and is useful for many recipes, such as meringue, sponge or

# To make a meringue:

- 1. Separate the egg whites from the yolks.
- 2. Pour the whites into a large, tall bowl.
- 3. Whisk with a mixer until almost stiff.
- 4. Slowly add some sugar (usually 50 ി ലൂട്ട് white is enough) and a tablespoon of the or juice.
- 5. Beat until stiff and
- 6. Bake 80 minutes, then reduce the temperature to 🕻 bake for approximately 2 hours.



# Extra tips:

- → Add a handful of desiccated coconut to the mixture.
- Use the egg yolks to make a zabaglione sauce.

# To make a basic sponge:

- 1. Take five eggs and break them, pouring into a glass.
- 2. Mark how much egg you have then measure equal amounts of flour ark
- 3. Whisk the eggs with sugar until stiff.
- 4. Turn off the mixer and slowly fold in sifted flour too much stirring will from the mixture.
- 5. Bake at 160 °C until golden.

Soufflés can be both savoury and sweet. The basic rule is to create a sweet or sa egg whites are added. A soufflé is baked in a tall tin filled only ¾ full to prevent t edge and burning. The best tins are ceramic, as they keep the warmth in and pre

- The first step is to prepare egg whites: pour them into a bowl, add a pinco shiny (even if you turn the bowl upside down, the whites should stay int
- Never open the oven during the first 15 minutes of baking cold air can
- Do not put the soufflé into a cold oven for the source reason. Always pre
- Soufflés should be served straightaways







# To make a soufflé:

# What you need:

- 20 g plain flour
- 15 g butter (plus a little to grease the tins)
- Breadcrumbs
- 2 eggs
- 1 teaspoon mustard
- 150 ml milk
- a cup of grated cheese (e.g. Cheddar)



- 1. Grease the tins with butter, remove the excess by tapping
- 2. Melt the butter in a saucepassmooth.
- 3. Slowly add the milk, constant from forming.
- 4. Cook for a couple of minutes
- 5. Remove from the hob.
- 6. Add cheese and mustard, sti
- 7. Add sels pepper or any other
- 8. Jowly add the whisked egg too vigorously in order not to
- 9. Pour into the tins.
- 10. Bake for 12 minutes at 200 📽

# Extra tip:

- → Add a spoonful of corn starch to the egg whites to prevent the soufflé from
- → If you want the soufflé to rise evenly, clean the tin edges of any drips.





# Skill 11c: Raising agents – Steam as a rai

Steam is a gas produced when water reaches its boiling pint (100 °C). It is comm steaming vegetables, meats and buns, and as a raising agent. It can also be used temperature helps to deactivate enzymes in food. Steam can also be used to cle utensils in the kitchen.

# Instructions for using steam

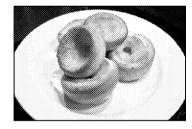
Steam is a gaseous form of water. It is used as a raising agent in dishes which co pastry or batter. Water, like any other liquid, expands where is heated. When to dough rises as well. As other ingredients of the distant transfer ature, the steam of them – that's why it is useful when making a sou of maky pastry. Thanks to this has a hollow centre ideal for filling and workin.

Batters are reactive for egg and a liquid (usually milk), beaten together into akes, coat foods (e.g. fish), make tempura (pieces of vegetable fried) and Your puddings.

# To make Yorkshire pudding:

What you need:

- 4 eggs
- 200 ml milk
- 200 g plain flour
- refined oil for baking (sunflower or rapeseed may be best).



- 1. Break the eggs into a large L
- 2. Pour in the milk, still whisking
- 3. Sift in flour, a little at a time
- Add some salt and whisk we and resemble single cream i
- 5. Pour 3 ml of oil into each so in the hot oven.
- 6. Remove the tin from the ove into the hot oil (use a ladle @ first).
- 7. Put the tin back into the ove 190 °C − do NOT open the ov as it could collapse!

The Yorkshire pudding can be served with gravy as part of a traditional Sunday re snack (e.g. with a horseradish sauce and smoked ham). It is best served fresh.

# Extra tip:

When pouring the batter into the tin, use a tablespoon to ... h any drips – this w dropping onto the hot tin, where it would inevitable in a second of the hot tin, where it would inevitable in a second of the hot tin, where it would inevitable in a second of the hot tin, where it would inevitable in a second of the hot tin, where it would inevitable in a second of the hot tin, where it would inevitable in a second of the hot tin, where it would inevitable in a second of the hot tin, where it would inevitable in a second of the hot tin, where it would inevitable in a second of the hot tin, where it would inevitable in a second of the hot tin, where it would inevitable in a second of the hot tin, where it would inevitable in a second of the hot tin, where it would inevitable in the hot tin, where it is a second of the hot tin, where it is a second of the hot tin, where it is a second of the hot tin, where it is a second of the hot tin, where it is a second of the hot tin, where it is a second of the hot tin, where it is a second of the hot tin, where it is a second of the hot tin, where it is a second of the hot tin, where it is a second of the hot tin, where it is a second of the hot tin, which is a second of the 







# Activity 11,2: It's not such a hard egg

# Task 1 From the foods below, choose and colour-code those which use eggs (blue) and significant significant and significant and significant significant significant and significant significa

sponge cake	gingerbread	pancakes
cheesecake	bread	brownies
scones	meringue	croissants

# Task 2

Split into type pare a sponge cake following the recipes below.

# Group 1

- 4 eggs
- equal volume of flour
- equal volume of sugar

# Group 2

- 4 eggs
- equal volume of flour
- equal volume of sugar

Break the eggs and pour them into have, then measure an equal volune eggs with sugar until pale and fluff. Bake at 160°C until golden.

Break the eggs and pour them into have, then measure an equal volunt egg yolks from the egg whites (e.g. Whisk the egg yolks with sugar untiflour and fold in. Whisk the egg white into the mixture. Bake at  $160 \, ^{\circ}$  until

Set up a simple taste panel to compare the two sponge cakes.

Appearance				
Taste				
Texture				
Other				
What concludes an you draw from this experiment?				

Group 1

# 



# Skill 11d: Raising agents – Biological rais

Yeast is a biological raising agent – this is because it is a live organism. As a microwater, warmth and time to develop. It helps to produce a specific consistency and bread, fizzy drinks), and may help to produce a distinctive flavour (as in marmite) ferment sugars in food – this means that it uses the sugar and digests it, produci (carbon dioxide and water, or alcohol).

# Instructions for using yeast

Yeast is a single-celled fungus which reproduces by budding is used in manufal drinks, certain types of sausage and marmite.

# Yeast is available in multiple form

- Fresh beige (light and soft to the touch, it has to be discrete and soft to the touch, it has to be discrete and soft to the touch, it has to be discrete and soft to the touch, it has to
- be discrete recourse; usually sold in blocks of 100 g.
  Drive dry) These are large granules which need to be dissected before being added to the mixture.
- **Instant** These are small granules which can be added directly into the mixture, without prior dissolving.

# To correctly use yeast, you must ensure it has:

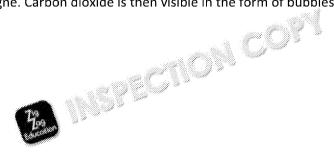
- **Moisture** usually yeast is dissolved in warm water or milk before being added to the dough.
- Warmth will speed up budding; use warm liquid (not hot!) and place in radiator.
- Food this is usually sugar or starch; it is added to the solution, as no liver food.



If all three conditions are met, the yeast will begin be smaller cells). During the process, sugar is fermented are produced.

Carbon dioxide expands and rises, causing the dough to rise. This is used in the manufacture of bread, panettone, steamed buns and other baked goods.

Alcohol produced by yeast is useful in the production of cider, beer, wine and champagne. Carbon dioxide is then visible in the form of bubbles.







# Activity 11.3: The heat is on!

Split into three groups. Each group will have to prepare a pizza dough **using a dif** water, as described below. Here's what you will need:

# Group 1

- 200 g strong flour
- 1/2 teaspoon salt
- 200 ml boiling hot water
- ½ teaspoon sugar
- 2.5 g active dry yeast

# Group 2

- 200 g strong flour
- ½ teaspoon salt
- 200 ml warm
- ½

or Sugar .

ve dry yeast

Combine the flour with and sugar to a tall glo dissolved. Set aside j flour and knead un Stretch the dough into

# Group 3

- 200 g strong flour
- ½ teaspoon salt
- 200 ml ice-cold water
- ½ teaspoon sugar
- 2.5 g active dry yeast

Set up a tasting panel and compare the three pizzas.

	Group 1	Group 2
Appearance		
Taste		
Texture		
Other		

What conclusions can you de	
<b>O</b>	

# 



# Skill 12: Setting Mixtures (Overv

Food mixtures can set thanks to the presence of two ingredients: starch and proyou how to set mixtures so they can be used in other dishes (e.g. desserts) or service applied to both sweet and savoury recipes.

# Equipment

As mixtures set, they take the shape of the dish they are in – for this reason, you various sizes and shapes of bowls, tins and moulds to obtain a range of appealing.

You could use round, square, rectangular, oval, heart and ed, and any other foo easily from them:

- Smear the bottom and sides with botter before pouring a hot mixture in will prevent the mixture in the sides.
- Place for a hort moment into a bowl with hot water (e.g. for jellay for

# Health and safety (Tips to remember!)

- Some mixtures require the use of raw eggs, so wash them in boiling water the risk of food poisoning.
- You can use disposable gloves when dealing with high-risk foods, such as
- Always use mittens when cooking especially when working with the over





# Skill 12a: Setting mixtures – Removal

Some foods, when chilled, set and become solid. This is thanks to the functional make these foods. When heated, they bind water, and when chilled they are able that helps to solidify the mixture. The most common ingredients used for setting potato starch), tapioca, gelatine and agar.

# Instructions for setting mixtures by removal of heat

Starch, when cooked with water, absorbs it and breaks open, thickening the mix gelatinisation and is used when thickening soups, sauces or sews.

When such a mixture is left to cool down or half lead thickening continues and **gelation**. The process is used to properly in dishes as custard cream (thick in contribution of the layered down and lancemange.

The most constant, type of starch used in such recipes is corn starch, although potato starch, although potato starch, although potato starch.

A specific type of gelation is used when gelatine or agar is added to the mixture, as they are both proteins, but work only when chilled. They are usually added to the hot mixture and stirred until dissolved, and then left to chill. During chilling, the mixture sets and turns into a jelly. This is used to prepare both savoury (e.g. aspic) and sweet (e.g. panna cotta or cheesecake) recipes.

# For a blancmange:

What you need:

- 3 tablespoons of corn starch
- 4 tablespoons of sugar
- <sup>1</sup>/<sub>8</sub> teaspoon salt
- 500 ml milk
- 1 teaspoon of vanilla extract or 1 vanilla pod



- 1. Pour 400 ml of milk into a sale extract or the inside of a variations simmer.
- 2. Mix the remaining milk with
- Once the mixture in the pan in the remove the vanilla pod and slowly pour in the six constantly.
- 4. Continue cooking for 15 min aftertaste.
- 5. Pour into bowls or glasses a
- 6. Serve with fresh fruit or cho

# Extra tip:

- → Add a teaspoon of butter to the flavour.
- → If you swap corn state how genatine, you will obtain a panna cotta. You can a to obtain characte.

See how to use gelatin at:

zzed.uk/9289y





# For a clear jelly:

- 1. Read the instructions on the packet of your gelatine usually a packet set varies depending on brand.
- 2. Choose the flavour you can use either fresh juice or a squash (if the lat like the colour and sweetness).
- 3. Measure as much liquid as your packet says divide it into two portions
- 4. Boil one of the portions and add gelatine.
- 5. Stir until dissolved.
- 6. Pour in the remaining (cold) liquid and leave to cool.
- 7. You can pour the mixture into separate tins or glasses to make single po

# Extra tips:

- → Make a few colours of jelly (e.g. apple, black and nthis spherry, kiwi). You can one layer over another (of course a as set), or set each jelly separate colourful 'jelly salad'.
- → If you dice the jelly in La found it to a panna cotta mixture to make a more
- → Use or pint). When the mixture cools down, but is still liquid, whip do jelly to it to make a nice fruity mousse.

# For a fruit jelly:

What you need:

- 3 glasses water
- 3 teaspoon sugar
- 4 teaspoon potato starch
- 2 glasses of fruit you can use both fresh and frozen fruit (but not kiwi, pineapple and papaya, as they will prevent the mixture from setting)
- Pour 2.5 glasses of water the fruit and bring to a sign
- Mix the rest of the water (no lumps).
- 3. Pour the mixture slowly is constantly.
- 4. Cook until clear (transpar
- 5. Pour into bowls or glasse

# Extra tip:

If the mixture is not thick enough, you can mix another teaspoon of starch in a tito the mixture, constantly stirring.

# For an aspic:

Aspic is a savoury jelly, usually made of pork, chicken or fish, mixed with eggs and vegetables and covered with a salty gelatine solution.

- 1. Make a broth from a chicken (or simply from a stock cube) and season.
- 2. Soak gelatine in cold water until soft, the and the hot broth (the amount of liquid should have a precipe from by the manufacturer sometimes it's a pint content of the sort may be less or more).
- 3. In a bowl, place the echicken breast, quarters of hard-boiled egg and of parables (e.g. carrots, but also green peas and sweet).
- 4. Pour the broth with gelatine into the bowl the solution should cover all the solid ingredients totally.
- 5. Leave until totally set.
- 6. Serve with lemon juice or mayonnaise.

# Extra tip:

Pork trotters are very rich in gelatine, so there is no need to add any more when as it will set by itself.

# 



# Skill 12b: Setting mixtures – Use of

Protein has the ability to bind water – for this reason, it can also be used to set a protein sets due to high heat (as in custard, where the mixture has to be simmer protein to denature). In other cases, the protein needs to cool down so that a cry (this happens when gelatine is used – please see previous chapter).

# Instructions for setting mixtures by the use of protein

Proteins are built of amino acids, bound together into long chains and then curle protein structure can be damaged by the use of:

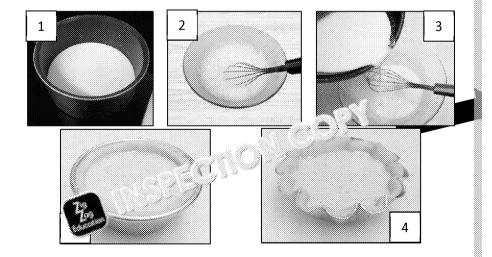
- Heat when cooking
- Acid when adding lemon juice and galify meringue to prevent it from
- Mechanical action whe will eggs (this is sometimes reversible).

Coagulation er come protein is heated. The molecules aggregate toge inside. If the overcooked, they will begin to leak the water (this is called synerotein is used to set such food products as soufflé, meringue, egg custard, quick Coagulation is also used when using gelatine (as gelatine is a protein, but require previous section).

# For an egg custard:

What you need:

- 700 ml milk
- 7 egg yolks
- 90 g caster sugar
- a pinch of nutmeg or cinnamon to taste
- tartlet (ready-made or hand-made)
- 1. Warm the milk in a sauce
- 2. In a large bowl, beat the and pale yellow.
- 3. Pour the warm milk slow constantly.
- Now you can use this mix bake for about 25 minutes golden brown (you can als bake a little longer).



# Extra tip:

If you sprinkle the top with sugar, it will caramelise, creating a crispy, shiny top (



# For a quiche:

What you need:

- 1 leek
- 1 broccoli
- 4 eggs
- 200 ml crème fraiche
- 100 g grated cheese
- thyme
- basil
- salt
- pepper
- cherry tomatoes.

- Line a flan ring with short ready-made one or make minutes.
- 2. Divide the broccoli into sminutes.
- 3. Chop the leek finely and f
- 4. Remove the base from the beans and the paper.
- 5. Spread broccoli and leek
- 6. W/h: ' eggs with crème fr
- ್. ಗರ್ಸ್ over vegetables.
  - Cut cherry tomatoes in have upwards.
- 9. Bake for 30 minutes, unti

It is best to thiny fried or blanched vegetables in quiche, as there may be set enough moisture for them to cook properly.

Always bake blind for 10 minutes before pouring the filling onto the pastry – this way it will stay crispy and will not soak with the wet filling.



# Extra tip:

If you struggle rolling the pastry, freeze it until hard and then grate straight into the baking tin.







# Activity 12.1: Are you set to go?

# Task 1 For each of the dishes below, indicate whether it is set by removal of heat, by the

Dishes	Removal of heat (✓)	Use of protein (√)
Soufflé		
Blancmange		
Quiche		
Aspic		
Custard cream		
Jelly		7.9
Egg custard		

Task 2



You have been asked to prepare mini-aspics as starters for a business lunch. Draw the picture to indicate what you have prepared and how.

# 

# 



# **Skills Checklist**

Use this checklist to assess your skills – tick the following boxes:

- One star if you don't know how to do something.
- Two stars if you know a little but need to practise more.
- Three stars if you mastered the technique and could help others with it!

Skill	-
	Lknow how to use a measuring jug
	I know how to use a measuring jug.
	I know how to use a digital and mechanical kitchen scale.
	I know how to convert units from metric to the interest all system.
	I know how and when to grease, line of flur wing dishes.
1	I know how and why to adim ( ok ) ame for various dishes.
	I can use various me in the check if food is ready.
	I can the and safe way.
	I kn 4 v to change the texture and flavour using various techniques.
	I know to present the food in an aesthetic way.
	I know when and how to use the bridge hold and claw grip when using a
	I can peel, slice, dice and cut foods into even pieces.
2	I know how to portion a chicken, fillet a chicken breast and remove fat a
	I know how to fillet a fish.
	I can slice evenly and accurately raw and cooked meat and fish and alter
	I can use a number of techniques to prepare vegetables and fruits.
3	I know how to control and prevent enzymatic browning, food waste and
	poisoning.
	I know how to use the different settings on a grill and how to use it to co
4	foods.
•	I know how to use the different settings on an oven and how to use it to
	various foods.
5	I can use a blender, food processor, mixer, pasta machine and microwav
	hygienic and safe way.
6	I can cook foods using various water-based cooking methods.
	I can cook foods using various dry and fat-based cooking methods.
7	I know how to prepare, combine and shape foods, while preventing cros
	contamination.
	I can cook starch-based sauces and understand how the starch/liquid rat
8	viscosity.
	I can cook reduction sauces and understand how eval pration enhances
	I can prepare and I know how to stabilise emission sauces.
9	I can tenderise meat, fish and altern to es ung various techniques, and
	understand how acids den in the control of the cont
10	I can make a short; y and bread and pasta dough.
	I know we are and finish the dough/pastry when preparing various
	I kn sen and how to use eggs as a raising agent.
11	I know when and how to use chemical raising agents.
	I know when and how to use steam as a raising agent.
	I know when and how to use yeast as a raising agent.
12	I can set food mixtures using gelatine and starch.
	I can set food mixtures using coagulation/protein.

# 



# Answers

# Activity 1.1: Are you close enough?

# Task 1

The students should notice that preparation of apple crumble does not require very precing redients, as all dishes made should not differ significantly.

## Task 2

The students should also notice that preparation of macaroons requires much more precome out as desired. There should be noticeable differences between macaroons made

# Activity 1.2: Ready, steady, cook!

# Task 1

Dish	How the apair the paking dish	
Shepherd's	May bာ ေ ဒ d ေh butter or oil, but essentially	This is because sh
pie	pr ၂ ၅. ခုပတ်။ needed.	and, therefore, it the tin.
Swiss roll	Line with baking paper.	To help remove t
Meat pâté	Grease and sprinkle with breadcrumbs or flour.	Because the pâté evaporates, the n be difficult to ren
Croissants	No preparation needed	Because croissan cooking, melts an
Quiche	No preparation needed. Foil can be wrapped	Because shortcru
Lorraine	around the edges for when the quiche is baked with filling to prevent them from burning.	melts and helps t
Profiteroles	Line with baking paper.	Because the batte easily – the profit forcibly removed
Lasagne	Pour a thin layer of the sauce on the bottom	As otherwise the
Bolognese	before placing first layer of pasta.	damaging the tex
Panettone cake	Grease with butter or line with baking paper.	Because yeast-ba fat and prone to

# Task 2

Students should notice that greasing the frying pan with oil affects the way the meat is contemperature, lengthening the cooking time but allowing the burger to cook evenly throusery hot temperature, which could cause the burger to burn on the outside while remains

# Activity 1.3: Are you cooking with gas?

# Task 1

# Bread:

- appearance This should increase i /v , . . . . , smould be golden brown in colour made to the surface, these mount your and have sharp edges.
- taste This shou' ← AE \*\* y yeasty and salty.
- sour e and be crispy, while the inside should be soft and sponge-like
- texture it should have small air pockets evenly distributed inside the dough.
- aroma This should be an intense aroma, not burnt.

# Broccoli:

- appearance It should maintain its shape; should be bright green (not grey/brown)
- taste This should be fresh and typical of broccoli, not burnt.
- sound broccoli can be al dente (to the bite) or soft, no sound should be made
- texture This should be firm, not mushy.
- aroma This should be fresh, not burnt.



# Chicken:

- appearance It should have a golden brown skin and pink/white meat inside (n)
- taste It should taste of fresh chicken meat, or of any herbs and spices used to have more flavour than the meat, as it absorbs more spices/herbs and is higher.
- sound The skin may be crispy.
- texture This should be soft and easily coming off the bone (if it sticks firmly an
  it needs more cooking time).
- aroma This will depend on the spices and herbs used, but cannot be burnt.

# Task 2

Students should notice that the larger the mould, the longer the cooking time needed. As the mould on the top shelf of the oven causes the top of the cupcake to burn and crack of bottom could leave it raw inside (i.e. would require a longer cooking time). Students should also notice that using a fan shortens the stock of time.

# Activity 1.4: Will your plan go activity

Examples could include:

- Ser the speak duck with caramelised potato cubes and carrot slices posses to the dish.
- Serving a thinly sliced duck breast with potatoes dauphinoise and broccoli mousse.g. by the number of meat slices, the size or weight of potatoes; broccoli moussingle-portion dishes.
- Serving a duck leg on a bed of potato mash and garnished with julienne carrot –
   by using a metal ring to place the potatoes, and the carrot could be weighed be

# Activity 2.1: Chop chop!

# Task 1

Vegetable	Claw grip?	Bridge hold?
Cut celery sticks into slices.		✓
Cut celery sticks lengthwise.	✓	
Cut a tomato into slices.		✓
Halve cherry tomatoes.	✓	
Dice potatoes.	✓	
Slice potatoes.	✓	
Slice carrots.	✓	
Cut carrots lengthwise.		✓
Julienne a bell pepper.	✓	
Dice garlic.	✓	
Slice a courgette.	✓	
Dice an onion.		✓
Slice an onion.	✓	

- Vegetables that are oblong/flat are best cut with a period of the claw grip, as it he the same time.
- Vegetables that are round or 's sour a shape are best cut with the use of brid position.

# Task 2

The difficulty will depend on the general ability of students; however, most of the and onion is the tougher task, as these are slippery and may be difficult to control. Raw to its soft texture.



# Activity 2.2: Are you able to cut it?

# Examples could include:

- wings: grilling, roasting, using for stock
- drumsticks: grilling, roasting, deep-frying, shallow-frying
- thighs: roasting, stewing, deep-frying, shallow-frying
- breast: roasting, grilling, stewing, steaming, deep-frying, shallow-frying, stir-fryi
- carcass: simmering, using for stock or sauce

# Activity 2.3: A (short)cut to meat preparation.

# Task 1

Advantages of removing fat/rind:

- makes meat easier to handle (less slippery)
- makes meat easier to cut (fat is often difficult to cound stringy)
- improves the nutritional value of the national value of the nati

Disadvantages of removir and in

- may the mount of fat-soluble vitamins in the meat
- may he meat to stick to the cooking dish, as there is no fat to prevent it
- may require the cook to add another source of fat (e.g. vegetable oil) to preven
- may affect the flavour of the meat (fat is a solvent for many aromatic compound

## Task 2

Students may notice that knives with serrated blades are not suitable for cutting meat as making the meat look unappetising. They may also notice that using flexible knives, such as the knife may easily slip off the meat (especially raw). Small knives, such as a paring knives of meat, but will be too small for handling larger meat cuts.

Ways to cut food waste could include:

- cooking all the meat scraps and turning them into a pâté
- cutting all the meat scraps into even smaller pieces and turning them into a mean bourguignon)
- cooking all the meat scraps and mincing them into a dumpling (tortellini, ravioli)

# Task 3

This is because fresh fish may be infected with viruses and parasites. The temperature in that the dangerous organisms are killed and the fish is safe to eat after defrosting.

# Task 4

Dishes that use raw fish include:

- sushi/sashimi
- ceviche
- tartare
- gravlax (unsmoked salmon in sugar, salt and dill)
- poke (Hawaiian bowl-style dish)
- carpaccio

# Activity 3.1: It's not a potato

Task 1

Students should rice that each potato variety produces a different mash. Some of the potatoes) while other, will be more starchy. Varieties such as russets should produce the

# Task 2

Students should notice that the texture and overall palatability of the sauce will differ de The blended pesto will be smoother, while the crushed pesto may have larger pieces of



# Activity 3.2: A slice of life in the kitchen

# Task 1

Examples could include:

- Cutting the melon into cubes difficult and messy process one could scoop messcoop (same applies to watermelon).
- Kiwi could be sliced or diced, depending on the desired size of the pieces.
- Grapes can be left whole or cut into halves; also seeds from the inside could b
- Blueberries could be blended with honey to make a coulis.

# Task 2

The process should include:

- washing and peeling the vegetables and apples, e.g. to resolve damaged, tough
- shredding the cabbage
- grating the carrot
- grating or julienning the apple
- scissor snipping or chromathy larsley
- adding squce 4 % solit
- mix L se soring

# Activity 3.3: Will this be a pretty sight?

# Task 1

Food	Garnish suggestion	
Vanilla cheesecake	chocolate sauce, fruit coulis, powdered sugar, caramel basket	This is a ve
Wafer with chocolate ice cream	caramel sauce, fruit coulis, fresh fruit pieces (e.g. blueberries)	Anything is this dish; for freshness it more rice
Raspberry teacake	fresh raspberries and other fruit	The teaca sweet (spo so fresh fr
Tuna pasta bake	fresh parsley or dill, lemon wedge, grated cheese	Parsley, di while the the chees
Cream of tomato soup	fresh parsley, coriander, crushed pepper, cream / sour cream / crème fraiche, croutons, roasted seeds	Green and the red co pepper an flavour.
Salmon carpaccio	fresh dill, lemon, soy sauce, capers	All these c
Beef steak	fresh herbs, scoop of butter / herb butter / garlic butter, crushed pepper and a alt, gravy/sauce	As beef stended appearance
Pizza margherita	fresh basil is somezzarella cheese, white sau significations, seeds	The garnis compleme

Task 2
Students show that it is easiest to peel a tomato when it has been stored at room broken prior to blanching.



# Activity 3.4: Food in the pipeline

# Task 1

strawberries (the green stalks must be removed), bananas, oranges, mangos, clementin

## Task 2

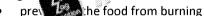
Examples could include:

- salmon, tuna or trout made into a mousse or pâté
- cottage cheese mousse (could be flavoured, e.g. with paprika)
- egg mousse
- meat pâté (e.g. chicken liver pâté)
- green pea mousse
- tomato jelly / mousse
- sour cream / crème fraiche

# Activity 4.1: Meaty discussion

# Task 1

Advantages



- previous ine rood from burning
- preventing the food from dropping into the charcoal
- allowing a larger selection of foods (e.g. small pieces of vegetables, nuts, seeds)
   Disadvantages could include:

- The aluminium could potentially 'leak' into the food, making it unhealthy.
- More waste is produced.
- It is less environmentally friendly.
- The food may lack flavour/smokiness.

# Task 2

blade chuck, shoulder, brisket, short rib – This is because these cuts are tougher and requirement tender cuts of meat.

# Activity 5.1: (Not quite a) spaghetti western

# Task 1

Advantages could include:

- faster than kneading the dough by hand
- helps to keep the hands clean
- distributes the ingredients more evenly throughout the dough

# Disadvantages could include:

- You need to use very slow settings (at least at the beginning).
- The flour may puff around if not using the guard.
- The eggs may splash around if not using the guard.
- It is difficult to judge if the consistency is correct (only assessment, cannot

# Task 2

Students should notice that gradually in the thickness of the pasta dough helps to cases 1 and 4). Using narrows a management of the pasta dough helps to case 1 and 4).

# Activity 6

v ງວບ're cooking!

Some of the cooking methods used could include:

- boiling, simmering or steaming rice or pasta for minestrone soup, simmering ve
- boiling pasta, simmering vegetables for Bolognese, simmering the sauce
- simmering cream for ice creams, boiling sugar to make caramel
- blanching vegetables and fruits for decorations and garnish

Accept any other suitable examples (dependent on students' chosen recipes and method

# 

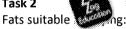


# Activity 6.2: Do you know which side is buttered?

Task 1 Examples could include:

	Dry-frying	Shallow-frying	Stir-frying
Fish	fish <i>en papillote</i>	fish goujons	noodles v
Chicken	chicken breast strips wrapped in bacon	breaded chicken breast	chicken a
Mushrooms	not suitable for dry- frying	mushroom steaks (breaded large flat mushrooms)	noodles v mushroon
Eggs	omelette	scrambled 5	egg fried
Broccoli	not suitable for dry- frying	brass ed a Sccoli ficess	noodles v sprouting
Tomatoes	not suital in the suital in th	fried green tomatoes	vegetable cherry tor

# Task 2



- coconut oil, lard, goose fat (very high in saturated fatty acids)
- peanut oil (high smoke point, neutral taste)
- ghee (purified butter higher smoking point)
- refined olive oil (high in monounsaturated fatty acids)

Fats not suitable for frying:

- rapeseed oil, sunflower oil (These are very high in polyunsaturated fatty acids.)
- fish oil (This produces fetid aroma, very high in polyunsaturated fatty acids.)
- extra virgin olive oil, unrefined linseed oil (These are high in healthy substances cooking.)

# Activity 7.1: Roll your sleeves up!

Task 1 Examples could include:

Piece of equipment	Why/how
e.g. saucepan	to simmer spinach befor
rolling pin / pasta machine	to roll the pasta dough
knife / ravioli cutter	to cut out ravioli from th
blender	to blend the spinach bef
fork	to help stick the edges o
large pan	to boil the ravioli
slotted spoon	to remove the ravioli fro

# Task 2

Examples of difficulties could include:

- filling spilling out of the wrap
- ger. filling being too wet, making wife A coopey
- pulling the wrap to a same learing it
- in, so that the burrito could not be closed

Examples of examples could include:

- crushing avocado into guacamole
- grating cheese
- dicing/slicing vegetables

# 



# Activity 7.2: It's a W(t)rap!

# Task 1

Students could use a range of fruits to prepare the shashlik, as long as they can be skewed too fragile); for example, watermelon, melon, white and dark grapes, strawberries, banapapaya.

When using bananas, students need to remember to sprinkle them with lemon juice to pears/apples, students need to choose varieties which are not too crisp, i.e. will not fall as Small fruits like blueberries, raspberries, etc. should not be used due to their size.

# Task 2

Students should notice that the chicken roll which was not secured with a skewer/thread lose its shape and spill the filling. They may also notice that, although useful in keeping to remove and, therefore, not very convenient to use.

# Activity 7.3: Too many cooks spoil : 1 31 21

# Task 1

	What equipment/ingredient I ne
Drain the c. and blend	colander to drain, blender or food processor to blend
them into a south paste.	
Thicken the chickpea paste	Add some cornstarch or breadcrumbs to thicken the r
and bind it.	yogurt to bind it.
Mix the chickpea mass with	the use of a large wooden spoon.
Shape the falafels.	Use a silicone ice cube tray to portion the mass, then
Coat the falafels.	Use breadcrumbs or flour to coat, possibly with added
Coat the falaleis.	seeds.

# Task 2

Examples of savoury dishes could include:

- shepherd's pie, cottage pie, fish pie
- lasagne
- layered salad e.g. in a jar
- pasticchio (greek-style dish made from pasta, meat and béchamel)

Examples of sweet dishes could include:

- tiramisu
- trifle
- upside-down cakes and desserts
- non-baked cheesecake

# Task 3

Examples could include:

- meatballs and vegetarian balls
- burgers, meat patties and vegetarian patties
- kebabs
- fish cakes
- Glamorgan sausages, make auses and various vegetarian sausages
- truffles
- son o அவர் products, e.g. bread rolls, plaits



# Activity 8.1: Sauce parlor

# Task 1

Students should notice that the roux retains its light colour for quite a long time; however colour changes from white through golden to brown very quickly, and it is necessary to prespecially when blond roux is desired (and to prevent the roux from burning).

## Task 2

Students should notice that the larger the pan, the quicker the sauce evaporates, and the attention to the heat used, as it may turn out that the sauce in the largest pan will evaporate experiment.

# Activity 9.1: Don't get yourself in a pickle!

## Task 1

The ingredients and time of marinating shou's for various items of food (longest for Examples could include:

- beef: oil, lemon in a, and a puttermilk, basil, parsley, thyme, rosemary, mild
- porbagar, ginger, orange peel and juice
- chick on, hot pepper, smoked pepper, garlic, honey, lemon juice, oregano, the vinegar, curry
- fish: oil, white vinegar, soy sauce, lemon juice, parsley, dill, salt, curry, turmeric

# Task 2

Students should notice that for most foods, the longer the time of marinating, the more be true for beef, pork and chicken.

Students should also notice that marinating fish for longer than 1 hour may not improve the marinade was high in acid, the fish may denature entirely even without being cooked.

# Activity 10.1: It's time to roll (in) the dough!

# Task 1

- Students should notice that chilling the pastry in the fridge before baking helps size, and does not shrink during baking.
- Students should also notice that baking blind with baking beans helps to keep the without the beans rises and loses its shape (may not be suitable for filling).

# Task 2

Students should notice that water adds shine to the bread surface. The egg adds both shill

# Activity 11.1: Will your cake cause eyebrows to raise?

# Task 1

Lemon juice, buttermilk, sour cream, yogurt, apple sauce (if ver source, apple vinegar. The sources of acids, which during cooking react with bicartest test source, producing carbon ca

# Task 2

Students should notice that the require with baking soda has a worse flavour (slight as the other cakes, Aloc the page made with no raising agents should rise less than sparaising flour in pawder.

# Activity 11.2: It's not such a hard egg!

# Task 1

- Foods which use eggs as a raising agent: sponge cake, meringue, soufflé
- Foods which use steam as a raising agent: pancakes, croissants

# Task 2

Students should notice that the batter made with separately whisked egg whites produc The final result will depend on their accuracy and precision when preparing the batter.

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# Activity 11.3: The heat is on!

Students should notice that the dough made with hot and cold water rises less than the is because yeast is a living organism, and the extreme temperatures kill the yeast cells, no

# Activity 12.1: Are you set to go?

Task 1

Dishes	Removal of heat	Use of protein	Both
Soufflé		✓	
Blancmange	<b>✓</b>		
Quiche		✓	
Aspic			
Custard	✓		
cream			
Jelly			✓
Egg custard		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	

# Task 2 Examples coulde

- aspic with pieces of roasted salmon, carrot and green peas, served with crème faspic can be then made from fish bones, or from a ready-made fish stock and get
- aspic with pieces of roasted chicken breast, sweetcorn and red pepper, served waspic can be made from chicken wings, or from a ready-made chicken stock and
- vegetarian aspic with broccoli and asparagus, served with green peas and soy cremade from vegetable stock set with pectin.)



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