

Food Challenges

For GCSE OCR Food Preparation and Nutrition: Tricky Desserts

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Teacher's Introduction

Food Challenges: Tricky Desserts is designed to support students in preparing the most challenging desserts found around the world. **Food Challenges: Tricky Desserts** was written for those who choose to study the new OCR GCSE Food Preparation and Nutrition specification. We believe that completing the tasks included in this pack will help the students to develop their investigative skills and pass their non-exam assessments with ease as they are able to explore the challenges faced in the kitchen, such as *time pressures*, temperatures, finishing, cooking methods and many more.

What it covers

Food Challenges: Tricky Desserts covers 15 tricky desserts, carefully chosen to differentiate them in difficulty level, skills needed to complete the challenge and scientific principles they are based upon. By completing the challenges students will develop the skills required by the OCR GCSE Food Preparation and Nutrition specification, gain confidence in cooking and prepare for their future career in the food industry. Each challenge is engaging and creative, supports further learning and allows critical evaluation of students' preparation and cooking skills. Each challenge is followed by a list of questions which help to fix and broaden the knowledge of the students.

How to use this resource

Each challenge consists of three parts:

- 1. **Teacher's guidance** includes the aim of the lesson and student outcomes, resources required (including equipment and ingredients), approximate time each challenge will last, a difficulty level, and suggested answers and teaching tips. This can be used to support planning of your sessions.
- 2. **'The challenge overview'** includes the ingredient list, the correct procedure and questions to think about sometimes you might be asked not to give these to students straight away, as developing a procedure might be a part of the challenge.
- 3. **'Your task'** student worksheets help to structure the work during the lesson(s). Each task is built upon a main focus point, which helps students to recognise and understand the learning objectives of the lesson.

To make the challenge a little bit easier, we suggest you begin each lesson by providing a short introduction of the lesson objectives (what the lesson/topic is about).

You can also schedule this as a homework for students so that they can prepare theoretically for the lesson. Encourage students to research the newest information and professional advice according to the newest scientific data, health professional associations, culinary professionals, etc.

Further points on logistics

- Before completing any task, make sure you have all resources needed – either provided by the school or brought in by students.
- In the task description we suggest to split the students into pairs or into small groups – this is a guidance only and can be changed due to organisational or safety reasons. Always consider these when planning your lesson, as you might need more or less ingredients, tools and kitchen appliances, etc.

Free Updates!

Register your email address to receive any future free updates* made to this resource or other Food and Nutrition 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

Go to zzed.uk/freeupdates

• On the ingredient list it is specified how many portions the recipe is for (when possible). Feel free to amend it if you don't need as much – and don't forget to amend the cooking time!

Further points on health and safety

- Before completing any challenge, make sure students are familiar with the school's health and safety rules.
- Make sure all groups have all the necessary equipment, access to running water and soap, ovens and power supply.
- Provide paper towels, clean kitchen cloths and kitchen gloves, or ask students to bring some from home.
- Make sure there is a working, certified fire extinguisher and/or fire blankets available, especially when handling hot oil.
- Remind students about safety issues when handling raw eggs or other high-risk products and when dealing with hot ovens / tins / blow torches / cookers.
- Make sure that students allergic to any food ingredients do not actively participate in activities which use them!
 Allergens are bolded on each ingredients list.
- Remind students about Good Hygiene Practice standards

November 2017

Ice Cream

TEACHER'S GUIDANCE

WHAT'S COVERED IN THIS SESSION:

- ✓ protein denaturati a protein denaturation
- ✓ safety previous of food poiso poiso ten dealing with high-risk foods
- ✓ the use of food temperature probe
- ✓ changing the texture

LEARNING

Students should be able to:

- identify the main ingressexplain the function of
- follow good practice proquality and safety
- understand how to set

SAFETY TIPS

- ! Make sure that students allergic to any food product do not ac challenge (encourage them to measure times and write notes, in this session include milk and eags.
- ! Remind students about the safety rules when handling high-risk apply them to prevent cross-contamination of foods.

GUIDANCE FOR DELIVERY

- It might be necessare to a face the ice creams overnight, so it would be benession to only the days.
- The ice could be used as part of the Baked Alaska challenge instead of
- Since the recipe only uses the yolks of the eggs, consider using the egg white macaroons.

WHAT YOU WILL NEED:

	Equipment:		l
✓	saucepans with thick bottom	✓	double cream
✓	large bowls	✓	whole milk
✓	whisks and/or hand mixers	✓	vanilla pods (or v
✓	strainers	√	caster sugar
✓	containers or boxes suitable for freezing	-	egg yolks
✓	measuring jugs, kitchen scale	5	
✓	food temperature probe		
✓	cooker		
✓	spoons, cups or ເໍ້າ ຈັດເມືອເປັນກ the taste panel		
✓	wate 79 m jess or stickers to label the boxes		

ECTION COPY



ACTIVITY ANSWERS

1. The table below shows exemplary quality and safety checks which might be consider

Procedures	Quality checks	
Place milk, cream, vanilla pod and half of the sugar in a saucepan	checking the footnet of milk and coon, ecoing the type of ignoresking that the milk is not curdled and smells fresh	•
Bring 79 tu to a simmer and remove the hob	 ensure the sugar is dissolved ensure the mixture is smooth (i.e. no lumps of vanilla seeds are present) 	•
In a clean bowl, whisk the egg yolks with the other half of the sugar until pale and fluffy	 break the eggs into a separate bowl one by one to check their quality and freshness ensure the mixture is properly creamed before proceeding 	•
Once the eggs are whisked, slowly pour in one-third of the cream mixture and whisk	ensure the cream mixture is cool before adding it to the eggs	•
Pour the eggs into the saucepan and gently heat (do not boil!)	• check the to be ature with a foo tell of acure probe introl the heat of the hob	•
Strain the sixt of the sound contains and the sixt of the sound contains and the sound clearly label the boxes.	 ensure the mixture is smooth (i.e. there are no lumps) 	•
Chill until cold, and freeze	 cover the boxes to prevent tainting ensure the mixture is cool before putting it into the freezer (otherwise large crystals will form, affecting the texture of the ice cream) 	•
After 30 minutes, take one of the containers out of the freezer and whisk again to add extra volume	use an electric mixer to incorporate larger amount of air into the mixture	•
Freeze until the mixture sets completely	ov f tr	•

- 2. Students should notice at 2.5 c. cams which were whisked twice are more fluffy a those which were whisked again.
- 3. i) Studential can decide to use various scales, such as 1–5 or 1–9 scale. It is imported scale so that the results are comparable.
 - Students should ensure the proper temperature of the food samples ic frozen (it is unacceptable to serve melted ice creams).
 - Also, students should label the food samples accordingly so that they can made by different groups and between ice creams which were whisked a

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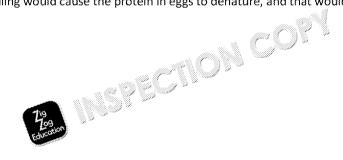


4. Calorific value of the ice cream can be lowered by:

- using different kind of cream, e.g. a mixture of double cream and single cream
- using skimmed or semi-skimmed milk instead of whole milk
- using less sugar or substituting it, e.g. with stevia or xylitol

QUESTIONS TO THINK ABOUT ANSWERS

- 2. Double cream is rich in fat, so helps to ohta the mooth, creamy texture due to the
- - Covering the common will help to prevent tainting (taking the smell of other to prevent tainting taking the smell of other to prevent tainting (taking the smell of other to prevent tainting taking the smell of other to prevent tainting taking taking the smell of other tainting taking taki
- 4. This recipe provides around 390kcal/100g.
 - The main sources of energy in the recipe are fats from double cream, milk and (16g/100g).
 - There is also some energy from protein from milk and eggs (3.7g/100g). Calculyolk weighs app. 25g.
- 5. There are two types of flavouring used in production of ice creams: natural an
 - Natural flavourings include vanilla, cocoa, fruit and vegetable juices and extra
 - An example of a synthetic flavouring is ethylvanillin (which is identical to vanilin a laboratory rather than from the plant), menthol (added to obtain mint flavour).
- 6. Boiling would cause the protein in eggs to denature, and that would turn the mixture





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lce cream

THE CHALLENGE OVERVIEW

Making an ice cream seems easy by '> reun/? Think about what can go wrong! The Color curdle, the eggs can set too early, the 🚌 🥒 🗷 zrystallise... and the use of ຳ ພາດ't you think?



Will you



Your challenge is to make this tricky dessert. Your task is to make it safety rules when dealing with raw eggs to avoid foo

INGREDIENTS

Makes 10 servings (90g each)

Ice cream:

- 500ml double cream \Box
- 150ml whole milk
- 1 vanilla pod
- 125g caster sugar
- 5 egg yolks

You can choose other 🐍 🔾 🙉 such as 🖼 pc v. :, helted chocola n fruit, etc.



	Proceduri
	Place milk, cream vanilla po
'	in a saucepan
٦	Bring the mixture to a simm
2	theip
l . , //	ျိုင်္ခြင်းan bowl, whisk the e
3	half of sugar until pale and f
Ϊ,	Once the eggs are whisked,
4	third of the cream mixture a
,	Pour the eggs into the sauce
5	(do not boil!)
6	Strain the mixture into two
0	freezing
7	Chill until cold, and freeze
8	After 30 minutes, take one
٥	the freezer and whisk again
	Freeze until the mixture set
9	2 hours)

QUESTIONS TO THINK ABOUT

Discuss these questions with a partner or write notes in your books.

- 1. What is the role of double cream in making ice crear (Ction C:1)
- 2. What temperature should we freeze ice crea a say say is it important to con freezer? (Section C: 3)
- 3. How many calories are in thrace when the What ingredients (macronutrients) ice cream? Use an and a spiro calculate this! (Section A: 4, Section A: 11)
- What (a) a gagents can you use when making ice cream? (Section B:
- you boil the mixture once eggs are added to it? (Section C: 1)

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Ice stain - Safety abo

Your Task

Get into te three and work together to compete against others in the class to a safety of the cream. What do you have to pay attention to? What should you average highest risk, and why? Complete the table to make sure you considered about every delicious, but also safe to eat! The first row of the table has been filled in already to not safe to eat!

1. When preparing your ice cream, fill in the table below to identify checks necessary to obtain the d

Procedures	Quality checks
Place milk, cream, vanilla pod and half of the sugar in a saucepan	e.g. ch. y. the fat content of milk and cream If ty a of sugar, checking that the milk is not au smells fresh
Bring the mixture to a simmer and move to the hob	
In a clean bow which the other half of the sugar the sug	
Once the characters whisked, slowly pour in one-third of the cream mixture and whisk	
Pour the eggs into the saucepan and gently heat (do not boil!)	
Strain the mixture into two containers suitable for freezing. Remember to clearly label the boxes.	
Chill until cold, and freeze	
After 30 minutes, take one of the containing of the freezer and whisk again to add e folure	
Freeze until mix 1 3 mpletely	

During the esson you will need to set up a tasting panel for all the ice cream made in class.



2.	Begin by comparing your own ice creams – the one which was whisked aga	
	which wasn't. Describe any differences in the table below.	

W	hisked again (box 1)	Not whi
7.200 Edwards		

3.	Now it's time to compare the ice creams made in class.	Use the table belo)`
	against those made by two other groups.		

i)

what scale will you use to assess the samples?

ii)	Are there any special conditions which need to be met when setting up

ě

Editor	My Ice	creams	Group 1:	
	My ice cream 1	My ice cream 2	Ice cream 1	Ice cream
Colour				
Appearance				
Sweetness				
Texture				
Other				
79 Fouration ar				
Total				

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Whose ice cream scored the most? How was this achieved? Compare the tables on quality and safety checks to 5. production process! In Questions to think about – Question 4 you were asked to calculate the call What could you do to lower it? Take the time to evaluate this challenge, noting down anything you learnt from change next time.

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Swiss Roll

TEACHER'S GUIDANCE

WHAT'S COVERED IN THIS SESSION:

- ✓ using mechanical 5, g meth
- ✓ adjust temperature

LEARNING OF

Students should be able to:

- identify various raising agents and describe the working characterist chemical properties of sugar in contents.
- explore the use of various typesexplain why certain outcomes myto prevent the failure in the future
- correctly use the star profiling me
 of food products

SAFETY TIPS

- ! Make sure that students allergic to any food product do not acceptable challenge (encourage them to measure times and write notes used in this session include wheat and eggs.
- ! Remind students about the safety rules who andling high-risk they apply them to prevent cross-coach in ation of foods.
- Ensure that students follow sale when handling hot food

GUIDAN TO DELIVERY

- Do NOT hand the challenge overview page to the students as working out the challenge. You can give it to them after the lesson.
- Consider handing the overview page earlier to lower-ability students to help

WHAT YOU WILL NEED:

	Equipment:		lı
√	oven	✓	different types of
✓	large bowls		icing, demerara,
✓	kitchen scale	./	different types of
✓	rectangular large metal baking tins		purpose, plain flo
✓	baking paper	✓	eggs
✓	clean kitchen cloths	✓	strawberry jam (d
✓	knives	✓	icing sugar
✓	spoo 75		

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CION



ACTIVITY ANSWERS

- 1. Depending on ingredients used, the final effect will differ.
 - For example, certain types of sugar will not cream as nicely as others, causing
 - Similarly, certain types of flour will produce a tougher cake than others.
- 2. See the challenge overview page for the correct procedur
- Whisking egg yolks and white the state of the best idea when making cake to rise too must run be would make it difficult to roll (consider the sponge called a sponge called a
 - Perpens to rise too much (is too thick), try to cut it in half to control in two Swiss rolls).
 - Lext time when baking a sponge, consider what you will use it for and a (e.g. add baking powder when making a Victoria sponge, but don't add a
 - ii) This, again, could cause the cake to rise too much, making it impossible t
 - If your cake rose too much, consider cutting it in half to obtain two flat specified.
 - iii) This could cause the cake to stick to the tin, making it impossible (or at le
 - Next time grease and line the baking tin evenly before pouring the batter
 - If the cake stuck to the bottom, try to remove it with a spatula
 - During cooling, water evaporates from the cake, making it dry and less man and, therefore, rolls more easily, while maintaining its structure (the cake is
 - If your sponge cooled down anyway, you can make it moist again by either
 spreading double cream mixed with sugar (not whipped!) on it and leaving
 sponge will absorb the moisture from the jam/cream and it will be easier.
 - You can also consider sprinkling your spong was a nixture of tea with seleaving it for 2–3 hours to absorb the ross.
 - v) This would produce a the filling out of the cake.
 - _____t t i ______om the longer edge.
 - Lappened to roll the cake from the shorter edge, leave it overnight sture from the jam/cream, and will be easier to slice.
 - vi) This causes the filling to leak out of the cake.
 - If you see the jam leaking out, stop rolling spread the cake, spread the this time, less tight; cover the surface of the cake with cream or chocolate of jam.
- 4. To make the star profile more useful, consider using the same profile to assess all S different coloured pens you could easily identify differences between them.

QUESTIONS TO THINK ABOUT ANSWERS

- 1. Mechanical raising methods, such as whisking, beating for he and sieving. The recombiological raising agents (although other recipios call for baking powder or other
- 2. The sugar is a bulking agent in as to confimproves aeration and provides sweet floor

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Swiss roll

THE CHALLENGE OVERVIEW

The process of making a sponge is simple, but receives a couple of tricks to make it fluffy and to be can sink, it can peak and crack, it can be confirmed inside... Rolling it up into a Swiss roll doesn't a skip any easier!

int it b al



Your challenge is to make this tricky dessert. Can you make it soft a under the pressure?

INGREDIENTS

Makes 6 servings

Sponge cake:

- ☐ 125g caster sugar
- ☐ 125g plain flour
- ☐ 3 large eggs
- 200g strawberry jam
- 2 tbsp of caster or icing sugar to sprinkle on top



		Proceduri
	1	Preheat the oven to 200°C
	2	Whisk the eggs with sugar un
	3	Fold in the flour, adding a spo
	4	Grease a large, flat baking tin
١		Prothe sponge onto the tingover
	6	Bake for 10–12 minutes
	7	Place a damp, clean cloth on
	8	Spread a piece of baking pape sprinkle with caster or icing s
	9	Place the baked cake upside sprinkled baking paper, and gbaking paper from the botton
	10	Trim the edges of the sponge dried bits
	11	Stir the jam vigorously and sp sponge
	12	Using the damp cloth undern a roulade

QUESTIONS TO THINK ABOUT

Discuss these questions with the training write notes in your books...

- 1. What raising ages to a seed in the above recipe for sponge cake? (Section C:1)
- 2. What is sugar in the recipe? (Section C: 1)
- 3. Why calculated use baking powder or self-raising flour when making a Swiss roll

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Swiss roll - Caution! Ho

YOUR TASK

Work in groups of four to make the bas Sais and prevent it from handling hot sponge! Focus as the prevent it from handling hot sponge! Focus as the prevent it from handling hot sponge! Focus as the prevent it from handling hot sponge! Focus as the prevent it from handling hot sponge, suitable for rolling? The strategy to be prevent it from handling hot sponge, suitable for rolling? The strategy to be prevent it from handling hot sponge it for make the bas Sais and prevent it from handling hot sponge! Focus as the prevent it from handling hot sponge! Focus as the prevent it from handling hot sponge! Focus as the prevent it from handling hot sponge! Focus as the prevent it from handling hot sponge! Focus as the prevent it from handling hot sponge! Focus as the prevent it from handling hot sponge! Focus as the prevent it from handling hot sponge! Focus as the prevent it from handling hot sponge it is a prevent it from handling hot sponge it is a prevent it from handling hot sponge it is a prevent it is a preve

From the list below, choose what ingredients you will use to make your spechoose one type of sugar and one type of flour only.

125	g of:
	lcing sugar
	White crystal sugar
	Caster sugar
	Demerara sugar
	Other:

125	g of:
	Self-raising flour
	Strong flour
	All-purpose flour
	Plain flour
	Other:

2. The next stage is to develop the procedure for moke the sponge. What delater? Do you use whole eggs or just the white the sponge tips in the sponge type chose!

Step 1	Preheat 'h 's # 200°C	Preheat the ove
Step ?	Wi yolks with sugar until pale and fluffy, and whisk the whites into a meringue.	Whisk the who pale and fluffy.
Step 3	Add the flour spoonful by spoonful.	Sift in the flour
Step 4	Grease a large, flat baking tin and line with baking paper.	Grease a large,
Step 5	Add the meringue to the batter and pour into the tin.	Pour the spong
Step 6	Bake for 10–12 minutes.	Bake for 30 min
Step 7	Place a damp cloth on the working surface.	Place a dry clot surface.
Step 8	Spread a piece of baking paper on the cloth and sprinkle with icing sugar.	Spread alumini
Step 9	Place the baked cake upside dov not the sugar-sprinkled baking per and gently removed to the large paper from the large paper.	Place the baked the aluminium breadcrumbs.
Step 2 7.9	ion (,), edges of the sponge with potato masher.	Trim the edges
Step 1	Spread the jam on the hot sponge.	Cool the spong over.
Step 12	Using the damp cloth underneath, roll up the hot sponge from the longer end inside.	Using the alum cooled sponge inside.

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Do not panic! At the end of the lesson your teacher will hand you the cha ingredients and procedures, so you can compare them and spot possible n

Once you have made your Swiss roll, you can continue to this exercise.

There are a couple of common mistakes made when making Swiss rolls. Try considered mistakes, how to prevent them – or how medy the situation

Low temperature of the oven...

... is a mistake because it length ്രാര് ക്രൂം of baking and makes the cake dry

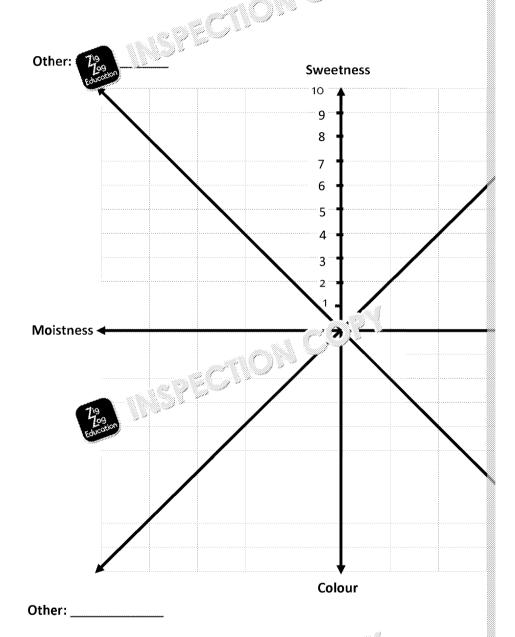
Next than	time, preheat the securectly. If the sponge is too dry or cracked, u
i)	With egg yolks and whites separately
ii)	Sifting the flour in with a sieve
iii)	Not greasing the baking tin
iv)	Waiting until the sponge cools down before rolling
v)	Rolling from the shorter edge
vi)	Rr 12 oc 1 :

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Once your Swiss roll is ready, assess it using the star profile diagram below Assess each feature indicated on the scale from 1 (weak) to 10 (strong) and different coloured pen for each Swiss roll made in class, e.g. green for Swiss orange for Swiss roll 3). You can also add your own features to describe the

Once all features are assessed, connect the dots referring to the same cake create a star profile. Repeat for other cakes made in to easily spot difference as the contract of the contrac Swiss rolls.



Take the time to evaluate this challenge, noting 🔑 h 🧳 thing you learnt from change next time.



NSPECTION



Panna Cotta

TEACHER'S GUIDANCE

WHAT'S COVERED IN THIS SESSION:

- setting a mixture with sale. ~
- gg 🕕 💹 or a vegan diet
- upsia aesserts
 - how far affects the texture
- the use of food temperature probe

LEARNING

Students should be able to:

- name various upside-dow
- identify gelling agents us down desserts
- describe the function of and mouthfeel of food p

SAFETY TIPS

- Make sure that students allergic to any food ingredient do not challenge (encourage them to measure times and write notes) used in this session include milk and nuts.
- Remind students about the safety rules when handling high-risk they apply them to prevent cross-contamination of foods.

GUIDANCE FOR DELIVERY:

- Do NOT hand the challenge or a set to students as working out the property of You can give it to them . h. lesson.
- You may sice the same day instead of on the last lesson the same day instead of one rs and continuing on the last lesson the same day instead of o
- When putting this lesson, consider one hour to prepare and bake the pudd the dish and the tasting panel. Make sure these are on consecutive days.

WHAT YOU WILL NEED:

Equipment:

- cooker
- fridge with a freezer (to speed up setting process)
- saucepans
- whisks or spoons
- kitchen scales
- measuring jugs
- cling film
- cooking oil (optional)
- brushes
- knives
- chop 79
- e.g. glasses, ramekins, bowls to speed up the setting process – provide many different kinds for students to choose from
- food temperature probe
- timer (students can use timers in their smartphones)

- double cream
- single cream
- whole milk
- plant milk (e.g. cashew milk) caster sugar
 - vanilla pods (o
- gelatine (cryst
- agar flakes

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) TOZ



ACTIVITY ANSWERS

- Students should be able to use kitchen scales (both electronic and mechanical), me (millilitres and ounces) and measuring spoons. Students who are more confident caused as glasses, teaspoons and tablespoons (e.g. two standard glasses measure 500 50g of sugar, etc.).
- 2. i) It is best to preheat the milk first, dissolve the at and only then add the that the cream will curdle.
 - ii) Carefully cooking milk with with whom you heat should allow good results. How burn them when could be there.
- 4. This de The n type of gelatine used:
 - Power crystal gelatine can usually be added straight to the mixture.
 - Gelatine leaves usually need to be pre-soaked.
- 6. i) The gelatine may sometimes be difficult to dissolve.
 - ii) One might consider various methods to speed up the process. For example:
 - continue stirring energetically
 - gently (!) heat the mixture and stir again
 - strain the mixture through a fine sieve or a coffee filter to remove the gethe texture later, as there won't be enough gelatine to bind all the liquid
- 7. The choice of dishes is important as it may speed up setting of the mixture. It is best flat, rather than large and deep.
- 8. Dishes for panna cotta usually don't require greasing or lining. However, some study with cling film to facilitate removal.
- 10. This depends on the method used previous vp. consistency of the food, a under hot water / placing it over consistency of the helpful as it dissolves the outer part uneven surface may be expected by the helpful as it dissolves the outer part uneven surface may be expected by the helpful as it dissolves the outer part uneven surface may be expected by the helpful as it dissolves the outer part uneven surface may be expected by the helpful as it dissolves the outer part uneven surface may be expected by the helpful as it dissolves the outer part uneven surface may be expected by the helpful as it dissolves the outer part uneven surface may be expected by the helpful as it dissolves the outer part uneven surface may be expected by the helpful as it dissolves the outer part uneven surface may be expected by the helpful as it dissolves the outer part uneven surface may be expected by the helpful as it dissolves the outer part uneven surface may be expected by the helpful as it dissolves the outer part uneven surface may be expected by the helpful as it dissolves the outer part uneven surface may be expected by the helpful as it dissolves the outer part uneven surface may be expected by the helpful as it dissolves the outer part and the helpful as it dissolves the helpful
- 12. Studen 199 do is like that panna cotta made with double cream has a more cream panna c

QUESTIONS TO THINK ABOUT ANSWERS

- 1. Examples linked to current season, depending when this challenge is taken place:
 - For spring: rhubarb, bananas, kiwi, passion fruit, blood oranges
 - For summer: apricots, blueberries, strawberries, raspberries, cherries, gooseb watermelon, currants
 - For autumn: apples, elderberries, damsons, quinces, figs, grapes, pears, plums
 - For winter: apples, pears, clementines, oranges, cranberries, pomegranates, p
 satsumas, dried fruit
- Panna cotta is not suitable for lactose-intolerant people lecause it contains maturally occurring in milk).
 - To make it suitable for lactose-intoleran σε σίο, i.e milk has to be substituted lactose-free cow milk, or a place of the substitute of the su
- 3. Whole milk:
 - is replied a sum, necessary for the proper growth and development of the
 - pr. itamin A, necessary for the eyesight, and good condition of the skin
 - provides vitamin D, which improves calcium absorption and strengthens bone
 - is a source of vitamin B12, which processes folic acid and prevents pernicious and acid and prevents pernicious
 - has neutral pH, so helps to prevent tooth decay by increasing pH in the mouth
 - high in omega 3 fatty acids, that are linked with many health benefits, such as he
 - provides cholesterol, necessary to build cell membranes, especially in the nerv

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Panna cotta

THE CHALLENGE OVERVIEW

Panna cotta is an upside-down dessert and so wilk or cream. But if you don't make it is a large on't set and you won't get it out of the distance.



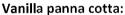
Will



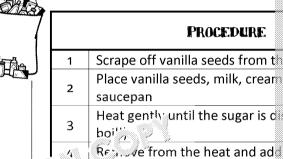
Your challenge is to make this tricky dessert. You will need to choos quantities so that your panna cotta has a perfect texture

INGREDIENTS

Each recipe makes about eight small portions



- □ Double cream
- ☐ Single cream
- □ Whole milk
- Plant milk (e.g. coconut, almond, cashew)
- ☐ Caster sear
- □ Vanii
- Gelati
- → Agar flakes



<i></i>	Stir until the gelatine is fully di
6	Pour into small dishes – glasse
7	Refrigerate for about an hour
l ′	set

QUESTIONS TO THINK ABOUT

Discuss these questions with a partner or write notes in your books.

- 1. Panna cotta is a very simple dessert, so to improve its flavour it is often serve fruits are characteristic for the current season? (Section B: 1)
- 2. Is panna cotta suitable for lactose-intolerant people? If not, how can it be n
- 3. What are the nutritional health benefits of drinking with milk? (Section A: 1)



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Panna cotta - How to nail the

YOUR TASK

ii)

What went well?

Divide into four groups. Each group will ' (e) panna cotta using task is to obtain the perfect texture of the dessert out of the At the end of the lesson vo (a) (b) and for see how the basic is a changes its texture/mouthfeel.

Group 1 400ml double cream and 100ml whole milk, 50g of sugroup 2 - use 400ml single cream and 100ml whole milk, 50g of sugar Group 3 - use 500ml whole milk, 50g of sugar and 10g of gelatine Group 4 - use 500ml plant milk, 50g of sugar and 8g of agar flakes

The perfect texture of panna cotta is achieved due to the perfect proportions.
 Draw (or attach a picture of) the tools which you will use to measure your in

2. The se to combine the ingredients and heat them up.

i) Do you preheat the milk first and add cream later, or cook everything to

19³59[?]

- iii) What went badly?
- 3. Measuremperature of the mixture with a food temperature probe:

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Then it's time for the gelatine to make its magic! Do you... add it straight to the saucepan? soak it first in cold water? Other: How long did you stir the mixture for? Did all the gelatine crystal all the gelatine 6. i) ii) there anything you can do to help? Now you need to pour the mixture into dishes. What dish do you choose? A glass, a bowl, a ramekin, or something else? D they are important for measuring the setting time! Jur dish with anything before pouring the mixture in If yes, what did you use? Put your panna cotta into a fridge and check every 10 minutes to see if i) 9. How long did it take for your panna cotta to set completely? Time to get it out of that pot! 10. How to get the dessert out of the dish? Run a ന്ന് മാന്റ്റെ the edges, submerge Maybe you know a different method And be now you did it and what the re piece, whole and intact? Carait a sawapart and stick to the dish? Or maybe



11. Now it's time to set up a tasting panel for all the desserts prepared in the cla

Remember to be professional and objective. This time you are going to use below to rank the samples depending on their creaminess.

- 1 not creamy at all
- 2 a little creamy
- 3 quite creamy
- 4 very creamy

Add the marks given by each person

winch panna cotta turned out to

Person		Group 2	Grou
ey-719 ?	2	1	4
1. Zog	> "		
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.		¥	
Total 79			

swer the of pann

Take the time to evaluate this challenge, noting down and in ng you learnt from change next time.



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Crème Brûlée

TEACHER'S GUIDANCE

WHAT'S COVERED IN THIS SESSION:

- ✓ altering the texture
- safet: pore 1.301 of food poiso pen dealing with high-risk food products
- ✓ using the oven and blowtorch

LEARNING

Students should be able to:

- understand the function cooking
- describe how moisture n
- understand the important desired results

SAFETY TIPS

- ! Make sure that students allergic to any food ingredient do not challenge (encourage them to measure times and write notes, used in this session include eggs and milk.
- ! Remind students about the safety rules when handling high-risk they apply them to prevent cross-contamination of foods.
- ! Ensure that students follow safety rules when handling hot food

GUIDANCE FOR DELIVERY:

- **Do NOT** hand the challer page to the students as working out the challer page to the lesson.
- You make der beginning the challenge on the first lesson during the day couple or nours and continuing on the last lesson the same day or on the nex consecutive days.
- Since the recipe only uses the yolks of the eggs, consider using the egg whitelemon meringue pie, baked Alaska or macaroons.

WHAT YOU WILL NEED:

	Equipment:		I
√	oven	✓	egg yolks
✓	large bowls	✓	caster sugar
✓	whisks, hand mixers or food processors	✓ -	vanilla pods (or v
✓	kitchen scale	1	double cream
✓	measuring jugs	V	whole milk
✓	ramekins in different sizes to state its to	✓	brown soft sugar
	choose		
✓	blowtors		

SPECTION COPY



ACTIVITY ANSWERS

- 1. Although recipes vary, the temperature for making crème brûlée should be rather l'
 This is to ensure that the protein from eggs denatures gently, which helps to obtain
 temperature would set the protein entirely, giving a tough, rubbery texture.
- 2. In this case, only egg yolks are used to ensure creaminess and elessert.
- 3. The milk and cream used should be at room inputure they shouldn't be too cobaking) or too hot (as this could and be eggs).
- 4. In this case the acceptainty not rise (unlike in soufflé, for example).
- 5. The classic recipe used when preparing this challenge calls for one hour of baking. If by increasing the temperature, and by using smaller ramekins. Using a water bath is recipes, as it allows even cooking and helps to maintain a smooth surface (not set or
- 7. Coconut sugar should not be used as it would not caramelise.
 - Icing sugar is also not recommended, as it would produce a coat rather than a
 - It is best to use caster sugar, crystal sugar, brown sugar or demerara.
- 8. Usually recipes call for a blowtorch; however; it may be acceptable to place the rank Baking is not recommended as it would affect the final texture of the dessert.

QUESTIONS TO THINK ABOUT ANSWERS

1. Chemical processes step by step:

Procedures	Ch⊚
Pour the egg yolks into a large bow! ': we whites for	•
a meringue or another recipal	
Add sugarand and fluffy	Denaturation of prote
Aud sup	fat
Extrac 200 and add to the eggs	Infusion
Slowly for in milk (should be room temperature)	-
Whisk in the double cream (also at room temperature)	Creaming of the fat
Pour the mixture into flat ramekins	-
Bake for an hour (or 15 minutes longer if necessary)	Denaturation and coa
bake for all flour (or 15 fillilutes longer if flecessary)	of sugar
Remove the ramekins from the oven and leave overnight	Satting (congulation)
to cool	Setting (coagulation)
Sprinkle each ramekin with soft brown sugar	-
Caramelise the surface with a blowtorch	Caramelisation of sug

- 2. Double cream is rich in fat, which makes the dessert creamy.
 - Single cream would make the mixture too watery,
 - crème fraiche would make it sour.
 - Double cream cannot be replaced, unless b ພາກ ກາງ cream.
- 3. The dish is high in sugar ar are single appropriate for people on low-calorie cholesterol diets in sity, hypertension, type 2 diabetes, coronary hear
 - Since on April is not suitable for people with lactose intolerance or many
 - The ence of eggs makes it unsuitable for lacto vegetarians, vegans and pe
 - It may also be unsuitable for Rastafarians, who do not drink milk.

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4. Eggs are a source of high-biological-value proteins, vitamins A, D, E and K, essential haem iron, zinc, selenium and lecithin. For this reason, they provide numerous head

- Protein supports growth and development of all cells and tissues, helps to build
- Vitamin A supports proper vision, and healthy skin and mucous membranes
- Vitamin D improves calcium absorption, helps to build strong bones and tee
- Vitamin E antioxidant, helps to prevent ageing, supports functioning of the r
- Vitamin K supports blood health, helps blood clot, also glays a role in vitaming
- Essential fatty acids (e.g. omega 3) help to buil so the sell membranes, espessivem, prevent heart disease
- Cholesterol helps to build her life and ambranes, especially in the brain and
- Vitamin B12 helps to in the Loud cells, prevents anaemia
- Haem iron ່າ ເຂົ້າເຂົ້າ ກັບເຂົ້າ red blood cells, transports oxygen in the body, previous
- Zi ps ps wand proteins in the body, supports functioning of the reprodu
- Se ______ antioxidant, supports proper functioning of the thyroid gland; some prevent cancer
- Lecithin enables transmission of signals between cells and nerves, improves cholesterol levels





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Crème brûlée

S

THE CHALLENGE OVERVIEW

Crème brûlée is a classic French dessert whit in the parachallenge... or actually a couple of challenges of the correct equipment, through the parachal control of the actual baking – there is a lot that can go visite in the correct equipment, the control of the correct equipment equipmen



Your challenge is to make this tricky dessert. Try to obtain the perfections common mistakes on the way! Are you ready to make your

INGREDIENTS

Makes 6 servings

Crème brûlée:

- □ 5 egg yolks
- ☐ 100g caster sugar
- □ 1 vanilla pod
- 250ml double cream
- □ 250ml whole milk
 - 1 the over the uga



PROCEL Preheat the oven to 1 Pour the egg yolks in the whites for a meri Acd sugar and whisk Extract the seeds from to the eggs Slowly pour in milk (s 5 temperature) Whisk in the double temperature) Pour the mixture into 7 Bake for an hour (or 8 necessary) Remove the ramekin 9 leave overnight to co Sprinkle each rameki 10 Caramelise the surface

QUESTIONS TO THINK ABOUT

Discuss these questions with a partner or write notes in July books.

- 1. What chemical processes take place during the first and of crème brûlée, step
- 2. Explain why double cream is used in the control of the replaced with single
- 3. Who may this dessert be a ulfa I rof? (Section B: 6, Section A: 1)
- 4. What are the health is enough of eating eggs? (Section A: 1)



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Crème brûlée – Challenge after ch

YOUR TASK

When making a dessert which uses only and warry basic ingredier attention to detail. Work in pairs and a the challenge of making Your task is to develop the set of scedure for obtaining a pudding pictures on the way as a find the effects of your choices.

In the kill is very often that you have to make choices and amendments on the go. Let's see whether you choose the right path... and don't forget to justify your choice!

	Temperature chosen:
i Ju	ustification:
 W	Vhisking the eggs with sugar. Do you use w عن الله و ا
	ustification
Α	dding milk and cream. Do you add them cold or preheat them? Whi
Ju	ustification:
D	illing the ramekins. Traw the ramekin you are going to use. Don't forget to label its dimen with the crème brûlée – will you leave some room or vall you fill it to

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	•••••			•••
				••
			,	
	100			
next expo.		me to cool and chill	it. Leave it in the f	rı
erday you prep	ared vour crème	brûlée pudding. It i	is time to finish it a	n
		hold on. What kin		
	-			
_				
Justification:				•••
				• • •
OK sugar is cho	osen. time to car	amelise it. How do [,]	you do it? Do you l	ha
OK, Jugur 13 CIK				06
_				
Chosen method				
Chosen method	ł to caramelise:			•••
Chosen method Justification:	to caramelise:	e desserts your class	smates made, asses	
Chosen method Justification:	to caramelise:		smates made, asses	
Chosen method Justification:	to caramelise:	e desserts your class	smates made, asses	
Chosen method Justification:	to caramelise: r or all the poor' and 5 mea	e desserts your class	smates made, asses add the marks to s	
Chosen method Justification: Prepare Total where Togan's	to caramelise: r or all the poor' and 5 mea	e desserts your class	smates made, asses add the marks to s	
Chosen method Justification: Prepare still where Appearance	to caramelise: r or all the poor' and 5 mea	e desserts your class	smates made, asses add the marks to s	
Chosen method Justification: Prepare 7503 s Where 7503 s Appearance Colour	to caramelise: r or all the poor' and 5 mea	e desserts your class	smates made, asses add the marks to s	
Appearance Colour Texture Sweetness Overall	to caramelise: r or all the poor' and 5 mea	e desserts your class	smates made, asses add the marks to s	
Appearance Colour Texture Sweetness Overall palatability	to caramelise: r or all the poor' and 5 mea	e desserts your class	smates made, asses add the marks to s	
Appearance Colour Texture Sweetness Overall	to caramelise: or all the poor' and 5 mea My crème brûlée	e desserts your class	smates made, asses add the marks to s	
Appearance Colour Texture Sweetness Overall palatability	to caramelise: r or all the poor' and 5 mea	e desserts your class	smates made, asses add the marks to s	
Chosen method Justification: Prepare thirwhere where Colour Texture Sweetness Overall palatability Other	to caramelise: or all the poor' and 5 mea My crème brûlée	e desserts your class	smates made, asses add the marks to s	

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ii) Compare the cooking process of the best crème brûlée to yours (unless all potential differences below. Take the time to evaluate this challenge, noting day a sything you learnt from change next time.

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Baked Cheesecake

TEACHER'S GUIDANCE

WHAT'S COVERED IN THIS SESSION:

- ✓ altering the texture years

 chan, the texture years
- ✓ mecha coverage aising methods

LEARNING OU

- ົ<+ , cents should be able to:
- identify raising agents and method cheesecakes
- explain the function of fat in estable of a food
- describe the differences between vectors cream cheese, cottage cheese), both characteristics and production methods.
- use a range of sensory testing method
 of a food product

SAFETY TIPS

- ! Make sure that students allergic to any food ingredient do not a challenge (encourage them to measure times and write notes, used in this session include milk, wheat, oats, eggs and sulfur die
- ! Remind students about the safety rules when handling high-risk they apply them to prevent cross-contar in the process.
- ! Ensure that students follow safety rate (v) an handling hot foods

GUIDANCE FOR TOWN SANT

- Drain the second of the cream/whey using a strainer lined with gauze. The mass of cheese (without the liquid). It's best to blend the cheese in a food protection that the texture of the cheesecake you can do this prior to the lesson to save the
- Also, prepare the ingredients early so that they are all at room temperature the cheesecake.
- The preparation of the cheesecake will take around two hours. Allow to cool in another one-hour session to complete the taste panel (e.g. in the afternoon or

WHAT YOU WILL NEED:

Equipment:	I
✓ food processor butter	
✓ kitchen scale digestive b	oiscuits
✓ measuring jug ✓ caster suga	ar
✓ saucepans ✓ eggs	
✓ spoons ✓ potato star	
✓ round regal le south	ls (or va
✓ strail ✓ raisins (opt	tional)
✓ gauze ✓ various typ	es of 🤇
✓ whisks or hand mixers standard or	ream 🗈
✓ oven standard co	ottage
cheese, or	other)*
*subject to	availa

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ACTIVITY ANSWERS

1. Students should notice differences in the nutritional value of different types of chees protein and calcium content.

Students should conclude that cottage cheese can make a good ingredient to include energy value and high calcium content. Students may notice that it might not be sufflered to milk or suffering from lactose intolerance.

8. Students may notice that objective assessments may differ – this is a personal preferences affect and chair.

QUESTIC THINK ABOUT ANSWERS

- 1. The egg whites are very rich in protein, which during whisking uncoils and traps egg white is a suitable raising agent in many recipes including cheesecake. Whisk texture to the cake.
- 2. Potato starch is a thickening agent and helps to set the cheesecake after baking.
- 3. The advantages of locally produced foods:
 - No need for transportation
 - Lower carbon footprint / gas emission
 - Lower price
 - Fresher
 - Supports local agriculture and farmers
 - Supports local communities

The disadvantages of locally produced foods:

- Low variety
- May be contaming the Authorities and May be contaminated and a semicals, pesticides, antibiotics (local does not equal to the contaminated and the contami
- Uswania va seasonally (low availability)

4. Product cottage cheese:

- Pasteurisation (and/or microfiltration) of milk
- Cooling to 30°C
- Adding starter bacteria cultures
- Adding rennet
- Cutting curd and draining off whey
- Pressing the remaining whey out and chilling
- Eventually adding flavouring (e.g. salt, chopped herbs)



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Baked cheesecake

THE CHALLENGE OVERVIEW

Cheesecake is a classic dessert in many countries what in many of them it is made without a king this challenge focuses on its main ingredit. A fact the cheesecake's texture







Your challenge is to make a baked cheesecake using different kinds

INGREDIENTS

Makes 10 servings

Base:

- 85g butter
- 140g digestive biscuits or oatcakes

Cheesecake:

- 500g cottage cheese (drained) or cream cheese
- 100g butter
- - 1 tbs otato starch
- 1 vanilla pod
- ½ cup raisins (optional)

PROCEDUF

For the base (optional):		
1	Crush the biscuits in a food	
_	Melt the butter over low he	
2	biscuits	
3	Stir until the mass resemble	
4	Place t' base in a round ba	

5	Preheat the oven to 160°C
	Drain and blend the cottage
6	processor until smooth (ski
	cream cheese)
7	Cream soft butter with suga
8	Pour in egg yolks and vanill
0	the vanilla pod and beat un
9	Slowly add in the cheese an
10	Add raisins and stir
44	In a separate bowl, whisk th
11	and white
42	Slowly add the egg whites t
12	carefully
	Pour the mass onto the base
1.	you're not using the base, gr

Pak ⊃ around 45 minutes

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QUESTIONS TO THINK #5.1.5

Discuss these set: 1. Explain Leading veni " ... a partner or write notes in your books.

- g writes are whisked and added separately from the rest of the m
- runction of the potato starch in the recipe? (Section C: 1)
- Cottage cheese is usually produced locally what are the advantages and dis sourced food products? (Section B: 1)
- Describe the production process of cottage cheese. (Section B: 2)

Baked cheesecake - Face the ingre

YOUR TASK

When making a cheesecake, everything in intent! From the sepreparation of and timing when having each step requires precise effect. This time you will for a true quality of cheese used – ever for all groups.

Divide in Groups. Each group will use a different kind of cheend you reed to conduct a tasting panel for all the cheesecal lunch!

Group 1 - use low-fat cream cheese

Group 2 – use standard cream cheese

Group 3 – use low-fat cottage cheese

Group 4 – use standard cottage cheese

Group 5 – use high-protein cottage cheese

Your teacher may prepare the cheese for you. If not, make sure yestrainer and blend it for three minutes in a food processor.

- 1. Before you begin the bake off (or when you're watth the cheesecake to the kind of cheese you're using.
 - i) You can use an online decrease a food table to check it. Then calculate recommended the form your gender and age group is provided with the following www.nutrition.org.uk website.
 - ii) Yo and Iso colour-code the table with the traffic light system to see if a daily basis. The instruction for colour coding can be found on www.r

	Per 100g	
Energy (kcal)		
Fat (g)		
Saturates (g)		
Carbohydrates (g)		
Sugars (g)		
P-799 (1)		
Fibre (g)		
Calcium (mg)		

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Here are a couple of additional tips which you might find useful when making to tick the box next to each tip you used! | Make sure all the ingredients have the same temperature – this will prevent of the oven – high moisture will prevent the surface is too dark, but you think the cheesenge is still raw inside continue baking | To check if the cheesecake is referred to the oven – it will always the tin – if the cheesecake is referred to the oven – it will always the tin – if the cheesecake is referred to the oven – it will always the tin – if the cheesecake is referred to the oven – it will always the tin – if the cheesecake is referred to the oven – it will always the tin – if the cheesecake is referred to the oven – it will always the tin – if the cheesecake is referred to the oven – it will always the tin – if the cheesecake is referred to the oven – it will always the tin – if the cheesecake is referred to the oven – it will always the tin – if the cheesecake is referred to the oven – it will always the tin – if the cheesecake is referred to the oven – it will always the tin – if the cheesecake is referred to the oven – it will always the tin – if the cheesecake is referred to the oven – it will always the tin – if the cheesecake is referred to the oven – it will always the tin – if the cheesecake is referred to the oven – it will always the tin – if the cheesecake is referred to the oven – it will always the tin – if the cheesecake is referred to the oven – it will always the tin – if the cheesecake is referred to the oven – it will always the tin – if the cheesecake is referred to the oven – it will always the tin – it will always the

4. After the cheesecakes are baked (and caned ് വേർ a tasting panel for all the

Complete the table below 'c see in which choice of the basic ingredient – checheesecake. You checkeesecake. You checkeesecake and additional groups scale, 'a poor' and 9 means 'excellent'.

Make sure you label all the dimensions and point out possible cracks on the

Rememeration remain professional and assess the cheesecakes objectively!

	Group 1	Group 2	Group 3
	Low-fat cream cheese	Standard cream cheese	Low-fat cottage cheese
Moisture			
Creaminess			
Crumbliness			
Overall texture			
Colour			
Other			
Other 19			
Other Education			
Total marks:			

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Overall, which cheesecake scored the most, and why? Was it because it was Or maybe it was the only one without a cracked top? 6. Which cheese produced the crown ii) eese produced the least creamy texture? How many marks did your cheesecake score? iv) What went wrong? What went well? v)

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7. Prepar Perence test to see which cheesecake is liked the most.

Simply ask 10 of your classmates to rank the cheesecakes on the scale from most'). Then add up all the marks and see which cheesecake scored the most

We filled in the first row to give you an example. As you can see, Mark liked the high-protein cottage cheese, and the least – the standard cottage cheese cottest, as the cheesecakes are ordered from the least to the most liked one, and

	Group 1	Group 2	Group 3	
Student's name	Low-fat cream cheese	Standard cream cheese	Low-fat cottage cheese	S
e.g. Mark	2	4	3	
79				
Education				
Total marks				



You assessed the cheesecakes using two different types of sensory testing: a rastrength of the sensory properties of cheesecakes, and a rating test to see which

	ake indicated as best in the first panel the same as indicated
panel? If not,	can you think why it is so?
72	
Education	

•••••	

49.9	
Education	
ake the time to	evaluate this challenge, noting down anything you learnt fro
nange next time	
719	
Education 200	w.

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Croissants

TEACHER'S GUIDANCE

WHAT'S COVERED IN THIS

- making a dough
- yeast jais ; jaic rollin, legazugh
- folding dough
- timing
- keeping the temperature low to obtain the desired texture
- using the food temperature probe

LEARNIN

Students should be able

- identify various typ
- describe the differe rough puff pastry
- explain the role of f croissants and othe
- use a rolling pin in a

SAFETY TIPS

- Make sure that students allergic to any food ingredient do not challenge (encourage them to measure times and write notes) used in this session include wheat, milk and eggs.
- Remind students about the safety rules when andling high-risk they apply them to prevent cross-corrad his stion of foods.
- Ensure that students follow $\mathfrak{SO}(2)$. les when handling hot foods

GUIDAN TR O DELEVERY:

Preparation of croissants is fairly complex, as it requires some work on thre when planning your lessons. We suggest planning at least 20 minutes on da two hours on day 3.

WHAT YOU WILL NEED:

	Equipment:		li li
✓	fridge or freezer	✓	strong flour
\checkmark	cling film	✓	salt
\checkmark	markers to label the samples	√	sugar
✓	oven		fast-action yeast
✓	baking paper	1	butter
✓	flat baking tins	\checkmark	eggs
✓	rolling pins – plastic. ws do no sicone, filled with	√	cold water
	water, marble the stew for students to		
	choo 700 h		
\checkmark	kitche Education		
\checkmark	measuring jug		
\checkmark	food temperature probe		
\checkmark	rulers or measuring tape		

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ACTIVITY ANSWERS

- 1. It is important to roll the dough quite quickly to prevent the butter from melting. State that their hands are cold, e.g. by washing them in cold water.
- 2. It might be a good idea to use a silicone rolling pin, which can be filled with ice and in the dough from melting and could allow more time for a for less-confident st
- 3. i) The working surface should be floured it. with plain wheat flour, or with in the original recipe (in this are trivial wheat flour).
 - ii) The dough shad దూడు:eu (ideally) every 2–3 strokes. However, this will de
 - iii) The property of the kept quite thick until the final folding, when it needs to be controlling it thinly means there can be more layers, which will then create
 - iv) During rolling, the centre of the dough can be kept thicker than the edges. The placed on top of it, the layer of pastry under the butter and on top of it will be created by the pieces of pastry folded over butter). If no more butter is added.
 - v) The dough should be rolled from the centre outwards.
 - vi) Ideally, the dough should be rolled into a rectangular shape, as this will allow it the same number of layers throughout.
- 4. Students should notice rising yeast activity (the higher the temperature, the faster to croissants will be).
- 5. Croissants which were glazed should have a shiny, golden finish. The unglazed croiss (not shiny).

QUESTIONS TO THINK APONT A SWERS

- 1. Strong flour (2) The gluten and, therefore, is better when making bread
 - Pl 19 r is wan gluten and is better used in production of pastry, shortcrust
- 2. Growth conditions for yeast include: warmth, moisture (presence of water), food (presence of
- 3. Folding helps to improve the texture of the pastry in two ways:
 - By trapping air between layers
 - By trapping butter between layers, which will melt during cooking and productions raising agent between the layers of pastry
- 4. Mechanical (folding)
 - Biological (yeast)
 - Physical (steam)



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Croissants

THE CHALLENGE OVERVIEW

Mmmmm... There is nothing better than a fresh, be pary croissant with crunchy crust and soft. in-...e-mouth interior! But can you make the many carries croissants is very labour-intensive and the many ming, and it will take you a couple of the couple of



 A goo.



Your challenge is to make this tricky dessert. Pay special attention to prevent the butter in the croissants from melting! Will your croissants

INGREDIENTS

Makes 12 croissants

Croissants:

- ☐ 500g strong flour
- ☐ 1½ tbsp salt
- ☐ 50g sugar
- 2 sachets of fast-action yeast
- ☐ 300g butter
- ☐ 1 egg
- ☐ 300m²



PROCEDURE Day 1 Place flour, salt, sugar, yeast and Mix and then knead for around 2 smooth Fara a . I, cover with cling film Put the butter between two she 4 parchment and roll into a flat re Roll the dough into a rectangle l 5 one Place the butter on top of the do 6 Fold the dough around the butt Day 3 (double session) Roll the dough and fold again (re and chill Roll the dough flat and cut it int knife Roll the triangles to form croissa 10 Place the croissants in a lined ba 11 rise for 30 minutes Preheat the oven to 200°C 12 Glazents of the croissants with 13 Lik / iof 15 minutes or until gold

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QUESTIONS TO TYY

Discuss the. tions with a partner or write notes in your books.

- 1. What is difference between strong and plain flour? (Section A: 11, Section C: 1)
- 2. Identify the growth conditions for yeast. (Section C: 1)
- 3. Why does the pastry have to be folded so many times? (Section C: 1)
- 4. What three different raising methods are used when making croissants? (See

Croissants - Battle against h

YOUR TASK

When making a puff pastry such as this, the factorie is key. You need to measure a such as the such as the factories and stick to you have compete against the factories and the temperature! Keep a food to measure a such a factories and the dough after each rolling and for the check ong it took you. You will also need a measuring tap compare me size and weight of your croissants.

At each stage of making the dough, make sure you check the core temperated completion. Use the table below to record your data.

	Time taken	
Day 1 – making the dough (steps 1–3)		
Day 2 – folding the dough with butter (steps 4–7)		
Day 3 – rolling 1		
Day 3 Control of 1g 2		
Day 3 – rolling 3		

2.	Your teacher	· will pro	vide yoι	ı with va	irious k	cinds of	rolling	pin.
----	--------------	------------	----------	-----------	----------	----------	---------	------

Which rolling pin are you going to use, and why? Make the decision before and use the same rolling pin each time.

Rolling pin used:

Why?

3. What is street technique for rolling the dough? Each cook has their own...

Let's begin by preparing the working surface.

i)	Do you flour it or not?		Flour	Don't flour
	If ves. what kind of flour do	vou use	for this?	

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	ii)	Do you rotate the dough		□ N		
	iii)	How thick do you make				Z
	iv)	Is the dough even?	die centr	e is thicker	□ Nc	SPE
	v)	Wire ire you	roll the dough? twards 🔲 Fr	om the edge inwa	ards	
	vi)	What shape do you roll	the dough into?			
		☐ Rectangle	☐ Square	☐ Circle	C.)	
4.	com	e you have cut out (step pare their size and weigh hen scale for the weight.	· · · · · · · · · · · · · · · · · · ·			Ž
			Size	(dimensions)		
	ste Aft	fore leavening (before ep 11) ter leavening (right after ep 11)				Ö
5.		tep 13 you are asked to g cture of or describe and a 1700 and a second				¥
6.		npare your croissants with ne differences? Compare				COPYRIGHT PROTECTED
						Zig Zoo
•	ike th	e te te evaluate this cl	hallenge, noting dov	wn anything you l	learnt from	Education

Page 39 of 101

Food Challenges for OCR Food Preparation: Tricky Desserts

Macaroons

TEACHER'S GUIDANCE

WHAT'S COVERED IN THES

- making a meringue
- setting of protein.
- bakir 19 ou car flour substitute in cooking
- the full of sugar in use of a food processor of sugar in cooking

LEAL

Students sho

- use vari
- make ar variety o
- use a pi

SAFETY TIPS

- Make sure that students allergic to any food ingredient do not challenge (encourage them to measure times and write notes) used in this session include **nuts** and **eggs**.
- Remind students about the safety rules when handling high-risk they apply them to prevent cross-contamination of foods.
- Ensure that students follow safety rules when handling hot food

GUIDANCE FOR DELEVERY:

- Prior to the lesson e is ingredients are room temperature.
- je 😘 . ' 🧠 gg whites e.g. leftovers from making crème brûlée. This is because during 'ageing' water evaporates from the egg between proteins are intact; this makes the proteins more elastic and easie
- Please pay attention to the icing sugar use pure icing sugar, not a mixture would potentially affect the final texture of the macaroons, making them to
- Since the recipe only uses the egg whites, consider using the egg yolks to car this pack, e.g. ice cream or crème brûlée.

WHAT YOU WILL NEED:

	Equipment:		
V	Baking paper	✓	almond
✓	Large flat metal baking tins	✓	pure ici
✓	Pencils	✓	egg wh
✓	Piping bags with various sizes and kinds of os students	✓	cream (
	to choose from	✓	caster s
✓	Large bowls	✓	pink foc
✓	Oven		colour)
✓	Food 7 so so	✓	fresh ra
✓	Hand to whisks		fruit)
✓	Kitchen scale – classic and electronic for students to	✓	raspber
	choose from		preserv
✓	Timers – students can use the timers in their smartphones!		



ACTIVITY ANSWERS

- 1. As indicated by the challenge overview page, this can be done by drawing small circular dividing it into equally sized squares.
- 2. When making macaroons, precision is key. Otherwise the mixture can become too product might differ in texture (e.g. be too crumbly or too wat lose shape during by
- 3. It might be best to use a pulsation setting to ground the monds. This way almond not paste or butter.
- 4. Although it takes more times which he best to use a traditional wire whisk, as it all egg whites to be sometimes a food processor can may least the processor can be sometimes as a preaction of the protein, which are no long mixture which are no long mixture which are no long mixture.
- Icing sugar should be added a spoonful at a time, one after another, to ensure that
 mixture. Using a sieve might seem a good idea, but it could introduce too much air
 texture.
- 6. This may depend on the quality and quantity of the food colourant. Usually only vertexture should not change. Adding too much of a food colourant can change the texture colourants contain, for example, citric acid, which may denature the protein in eggs.
- 7. The almonds should be gently folded in with a spatula. The texture of the mixture & be fluffy.
- 8. The size of the tip will determine the size of the baked macaroons the larger the tookies. The kind of tip doesn't matter as much as the mixture will 'melt' in baking
- 10. The temperature will vary depending on the type of oven used. It should be lowered macaroons are larger (otherwise they will burn on the current and be raw inside).
- 12. Students should observe that at the beginning in this really happens, but after are macaroons begin to rise and form a characteristic foot.

QUESTIONS TO WAR ABOUT ANSWERS

- 1. Sugar is Education many reasons:
 - As a sweetener / flavouring agent
 - As a bulking agent
 - To improve texture (by enabling creaming and aeration)
 - To improve colour (by caramelisation, dextrinisation and Maillard reaction)
 - To preserve the food and prevent food spoilage (e.g. in jams)
 - To extend the shelf life of food
 - To speed up fermentation, e.g. in bread or yeast buns
- 2. i) Flour can be substituted by using almond flour (ground almonds), soy flour, gr
 - ii) This may be necessary, e.g. when developing recipes for gluten-intolerant peo the texture, flavour or nutritional value of the final product.
- 3. Natural colourants used in the food industry include:
 - Vegetable extracts, e.g. beetroot, carr + sp arb, onion husks
 - Herbal extracts, e.g. mint, stir , (ne)
 - Spice extracts, e.g. ຕະ ອ໌ຄ ສຸຊະໄຮຄ໌
 - Flower extra 's ៩. ar..omile
 - In 19 g. sprimeal
 - An execution in graph in g
 - Carame
- 4. Cream of tartar is a kind of acid and speeds up denaturation of protein in the egg while

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Macaroons

THE CHALLENGE OVERVIEW

Macaroons are delicate, small, round, colour of a delicious... but the batter is very tricky and care of the easily, creating an unappetising, melted are trailed and another delicious...

Macar



Your charge is to make this tricky dessert. An ideal macaroon will and gooey on the inside! Are you up for this char

INGREDIENTS

Makes 30 macaroons

Macaroons:

- 100g almond flakes
- ☐ 180g pure icing sugar
- ☐ 3 egg whites (app. 100g)
- ☐ ¼ tsp cream of tartar
- ☐ 35g caster sugar
- ☐ Pink food colourant

Filling:

- 100g fresh raspberries
- ☐ 100g raspberry iam



Procedure						
For the macaroons:						
1	Line large baking tin with baking particles on it, spreading them evenly all over squeeze your macaroon batter					
2	Put the almonds and caster sugar ground until very fine using the 'pu					
3	In a large bowl, whisk the egg white					
4	Add cream of tartar and whisk for					
5	Slow ing sugar and beat u					
	Aud food colourant and whisk for					
7	Gradually fold in the almond/suga					
8	Fill a piping bag with the mass and a prepared baking paper					
9	Let stand for 30 minutes					
10	In the meantime, preheat the ove					
11	Bake the macaroons for 10–12 min separate from the paper					
12	Remove the macaroons from the cowire rack					
For th	e filling:					
13	Place the raspberries and jam in a until smooth					
14	Use the mixture to glue two maca					

QUESTIONS TO THINK ABOUT

Discuss these questions with a partner or write notes. Jour books.

- 1. What is the function of sugar in (section C:1)
- 2. Some recipes do not us
 - i) What can 's ' is fluce flour with? (Section B: 6)
 - ii) W 19 ht whe necessary to substitute flour in recipes? (Section B: 6)
- 3. List son aral colouring agents that are used in the food industry. (Section
- 4. What is the function of cream of tartar in the macaroons recipe? (Section C: 1)

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Macaroons - Smooth crimi

YOUR TASK Macaroons are tiny meringue-like cookies as a so only three ingreand almond flour. A perfect ma think in the a crunchy surface will be perfectly smooth ar an in shape. When making this de there are many trate and way to success! We will guide you this Begin by preparing your baking tin. You want every macaroon to be the sa What size are your macaroons going to be? Now carefully measure the ingredients. 2. Do you use a classic kitchen scale or an electric one? How precise is that scale? It's time to grind the almonds with sugar. 3. i) How long are you going to grind them for?..... What is the consistency of the mixture after... (write n/a if you're doing ii) 2 minutes of grindi 🔊 🕮 🗀 4 minutes of grinding..... 5 minutes of grinding Next step – whisking the egg whites. i) What do you do it with? Whisk Hand mixer Food processor How long do you whisk the egg whites for?..... How do you add the icing sugar into the whites

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By the spoonful All at once

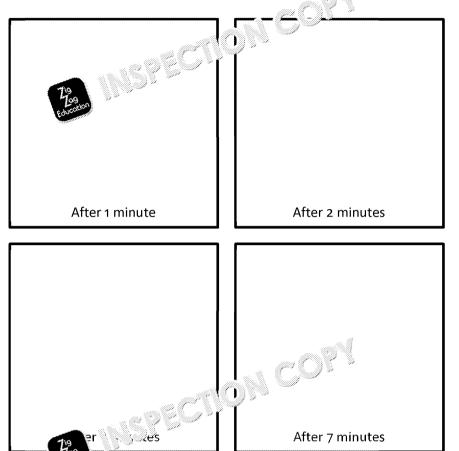
Adding the food colourant. 6. How much do you use? Did the texture of the mixture change after adding the colourant? ii) Now you need to add the almonds with sugar to the righture. How do you 7. vigorously and quickly, e.g. with the whisk projugations are a for whisking, just Time for pig What size of tip do you use with your piping bag? 8. i) What kind of tip do you use? Draw it below. Once you have piped the mixture onto the boting of it needs to stand for pictures at the beginning, after 15 minus at the an inter 30 minutes to see how macaroons changes with time and the pictures below (or save them sor always get back to the properties of the results of o minutes 15 minutes Finally, you can bake your macaroons. 10. Did you set the oven to the temperature of lice of in the procedures or did you

OIO Z

11. How long did you bake the macaroons for?

.....

12. **Get your timer ready! Take a photograph of your macaroons in the oven at** 3, 4, 7 and 10 minutes, respectively). Remember not to open the oven for the exercise)! Write n/a if you baked your macaroons for so norter time.



13. Once the macaroons have cooled slightly, assess them on a scale from 1 to 5 and 5 stands for 'yes, perfect'. Remember to be professional and objective

Feature/characteristic
The macaroons are equal in size
The macaroons have the same shape
The macaroons separate easily from the baking paper
The macaroons have a crunchy crust
The macaroons have a gooey centre
The macaroons do not break apart what lifted . In the tin
The macaroons are not hol/ww
The macaroors so jour in texture (no bits or whole almond can be felt)
The c. bright and intensive
The shells do not separate from the foot of the macaroon when you stick them together with jam
Total score

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14. Compare your result with others and try to detect what they did differently was better. Take the time to evaluate this challenge, noting for anything you learnt from change next time.

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Lemon Meringue Pie

TEACHER'S GUIDANCE

WHAT'S COVERED IN THIS SESSION:

- ✓ making sauces
- ✓ starch
- thi i .
- ್ರ agent
- 🗸 settiri 🥍 🧓 ire
- ✓ use of as in cooking

LEARNING

Students should be able to:

- use various thickening age preparation of sauces and
- understand interactions ingredients

SAFETY TIPS

- ! Make sure that students allergic to any food ingredient do not challenge (encourage them to measure times and write notes used in this session include wheat, milk and eggs.
- ! Remind students about the safety rules when handling high-risk they apply them to prevent cross-contamination of foods.
- ! Ensure that students follow safety rules when handling hot food

GUIDANCE FOR DELIVERY:

- To save time, prepare 🐪 🛣 📆 ast prior to the lesson or buy a ready-to-use
- **Do NOT** significantly consist the challenge overview page their task is to work curd. You can cover the ingredient list and copy that (one per group) overviewer the lesson so that they can compare their recipe with the most
- Assessment should take place in the next lesson (ideally afternoon of the sale)

WHAT YOU WILL NEED:

	Equipment:		l I
✓	oven	✓	corn starch
✓	round baking tins	✓	caster sugar
✓	whisks, hand mixers and food processors for	✓	lemons
	students to choose from	✓	eggs (raw)
✓	large bowls (three for each group)	✓	cold water
✓	baking paper		plain flour*
✓	saucepans	/	butter*
✓	grater/zester and hand juicer	✓	icing sugar*
✓	kitchen scale	*:	taad you oon choo
✓	measuring jug	1115	tead you can choc
✓	rollin 79		
✓	bakin, or other equipment for blind baking		
	(e.g. dried peas)		

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ACTIVITY ANSWERS

- A basic recipe for a shortcrust pastry includes plain flour and butter, sometimes with cooked), cold water and salt/sugar.
- 2. Blind baking means that the pastry is baked without a filling. Instead, to prevent it baking beans or other heavy equipment; for example, a manage pulses (e.g. lentils).
- 3. This is because the other ingred and meringue do not require los (almost completely) between the whole cake is assembled.
- 4. The co. των νεε β re is shown on the challenge overview page.
- 6. Students may consider adding some starch (either plain flour, corn starch or potato instantly, or to simmer it to evaporate extra water, if too liquid.
- 8. i) The process is denaturation.
 - ii) Denaturation caused by mechanical action (whisking) is partially reversible. Description (heat or acid) is not reversible.
 - iii) The egg whites will whisk faster if you add a tiny pinch of kitchen salt.
- 10. Given the ingredients, the reactions could include:
 - caramelisation (of the sugar in meringue)*
 - dextrinisation of the starch in the shortcrust
 - Maillard reaction between protein and sugar in the meringue
 - *although not required by the specification, this is an important process used when cooking
- 13. Some descriptive words could be zesty, cruncay, fiscy, wuity, gentle, soft, moist, go

QUESTIONS TO THEY WANT ANSWERS

- 1. Corn st 19 th Likening agent. It is used to increase viscosity (thickness, texture)
- 2. Because it is low in gluten, so the pastry will stay crunchy. Other types of flour, e.g. the pastry would be too soft.
- 3. A portion of lemon meringue pie provides roughly:
 - 398kcal
 - 13.1g of fat
 - 68.8g carbohydrates (inc. 47g sugars)
 - 5.7g of protein
 - 0.9g fibre
- 4. Top producer countries include India, Mexico, Argentina, China and Brazil.

 The transportation of food affects the environment in many ways:
 - By emitting greenhouse gases (e.g. carbon dioxid par burning fuel (e.g. gas warming and climate change
 - By emitting heavy metals (e.g. 1c3 , c) um/it contributes to environment comain routes
 - By emitting oth states (e.g. soot, hydrocarbons, nitrogen compounds) it
 - By The right of makes many places unsuitable for animals (including people to The right) on and/or extinction of species, and degradation of habitats
 - By building of roads and bridges it contributes to deforestation and lowering have no habitats to live in

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Lemon Meringue pie

THE CHALLENGE OVERVIEW

Lemon meringue pie is an American classic. Ir photo made, this dessert can turn into a pool rather that the come on! Mixing lemon juice and starch? A really work together, should it?! Also the merit and can be underbaked, making the slicing $\underline{\underline{a}}$ and \underline{c} \underline{b} $\underline{$

Am



Your challenge is to make this tricky dessert. Can you adjust the text doesn't fall apart when sliced? Or will yours collapse in

INGREDIENTS Makes 8 servings Lemon curd: 35g corn starch 125g caster sugar 3 lemons (zest + juice) 3 egg yolks 225ml cold water Meringue: 4 egg whites 220g caster sugar Shortcru: (Lise a ready one or make your own 1 175g plain flour 100g cold butter 1 tbsp icing sugar 1 egg yolk (raw)

	Procedi
1	Mix the ingredients of the food processor until smoo a ready one)
2	Preheat the oven to 190°
3	Roll the pastry until 0.5cm round baking tin
4	with baking paper a inutes; remove from the
. or th	e curd:
5	Mix lemon juice and zest states
6	Boil the water in a saucep
7	Add the starch mixture to simmer until thick, remov
8	In a large bowl, mix the eg
9	Slowly add the eggs into t constantly
10	Simmer the curd for a cou thick) and then pour over
For th	e meringue:
11	In a large bowl, whisk the stiff
12	Slowly add in the sugar
13	Pour the meringue onto t
14	Bake for 30 minutes or un

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QUESTIONS TO THINK ABOUT

Discuss these questions with a partray of Frigure to your books.

- What is the function of () the recipe? (Section C: 1) 1.
- 2.
- Why is play floating a shortcrust pastry? (Section C:1)
 Calcula Top all lies and the amount of macronutrients al wes and the amount of macronutrients in a portion of the pie d weight is 25g, and the lemon juice weighs approx. 90g.) Use ar calculate this (Section A: 4)
- Lemon is a citrus fruit imported to the United Kingdom from other countries. world's largest lemon producers and then list the environmental effects of food

Lemon meringue pie - A pie, not a

Your TASK

Logically thinking, lemon juice and starc' of in work together, from lemon juice hydrolyses* cherrials but as in the starch chains, granules apart. Due to the individual and they lose their thick are perties!

Your tas correctly adjust the amount of juice and starch (and order) so war your lemon curd is thick enough not to turn into a perenough to have a nice mouthfeel. Divide into groups and try to emethods – whose pie will appear best?

*hydrolyse: to break down a chemical substance in a reaction with water.

Making a lemon meringue pie begins by making a shortcrust pastry.

- 1. Try to remember the ingredients and proportions of a shortcrust pastry, and It is also possible that your teacher will provide you with a ready-made shorts label carefully and list the basic ingredients and food additives used in the parallel flavour or colour.

 2. The procedures call for bling and the crust.

 i) What is bling and the crust.

 ii) What equipment can you use for blind baking?

 3. Why is it important to blind bake the crust before adding other ingredients?
- 4. The most important task today is repare lemon curd.

It is a key ingredient in the markeringue pie, as if is too runny it will leak out and making the configuration of the configuration of

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Remember to measure all the ingredients carefully and note in what order you

Land Parker Land	The procedure:
Ingredients: how much? Corn starch Caster sugar	Proceduri
☐ Lemon zest	
□ Egg yolk	2.
Equipme: 700	3.
	4.
	5.
	6.
	;;\C9 ^{?\}
	<i></i>
ii) W 79 en 1 1 1 2 Or did you h	ave to throw it away and start again?
. There is a possibility that the curd did	not come out well – is there a way to
. Once the curd has the proper taste ar time to cool.	nd texture, you can your it onto the sho
At the end of the lesson your teach with yours and try to spot with a subsection of the lesson your teach with yours and try to spot with yours and try to spot with yours and try to spot with your teach wit	and you the correct ingredient list stakes or differences.
Zogano, January Company	

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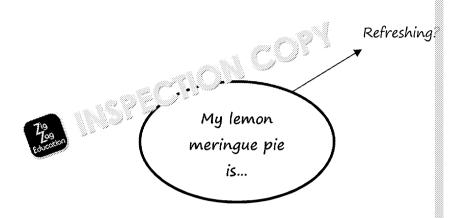


It's time to make the meringue. You will need to whisk four egg whites with a meringue. What is the chemical process that takes place when whisking the egg w i) Is this process irreversible? ii) iii) Can you do anything to speed is iv) What utensil did you use to whisk your egg whites? v) How long did it take you to obtain the required texture? Once the meringue is ready, scoop it out on the curd, creating peaks, or eve skewer to obtain the chosen pattern on the pie. 10. Bake the pie for around 30 minutes, or until golden brown. Can you name the reaction(s) which makes the crust and the meringue brow 11. Take the figure it chip. Oven and let cool before completing the next task (cutting The pie is cool and ready to eat... or is it? Remove the ring from the tin and Take a picture of your pie before and after cutting. Or simply describe the look of your pie, paying extra attention to the texture **Before:** After: UNSTECTION CO

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13. How would you describe your pie? Use as many descriptive words as possible professional! 'Good' or 'bad' doesn't make it!



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Take the time to evaluate and a reasonable and anything you learnt from change next the change

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Chocolate Éclairs

TEACHER'S GUIDANCE

WHAT'S COVERED IN THIS SESSION

- making choux comme

- d Sacion
- coating and decoration techniques
- setting up a taste panel
- choosing tasting methods

LEARNING

Students should be able to:

- understand how various and consistency of a pas
- use a broad variety of ski
- use creativity and skills to flavoured desserts
- use a variety of sensory to

SAFETY TIPS

- Make sure that students allergic to any food ingredient do not challenge (encourage them to measure times and write notes) used in this session include **wheat**, **milk** and **eggs**. Chocolate m or other allergens, depending on the producer. Read the label
- Remind students about the safety rules when handling high-risk they apply them to prevent cross-contamination of foods.
- Ensure that students follow safety rules who had ing hot foods

GUIDANCE FOR DE

- en a are encouraged here to develop new flavours and recipes, i fior to the lesson so that they can plan what they are going to us worksh from home.
- When planning this session, consider one hour to prepare the éclairs and or complete the tasting panel. We think it's best to organise a double session.

WHAT YOU WILL NEED:

	Equipment:		li,
✓	oven	✓	water
✓	food processors, hand mixers, whisks, wooden	✓	milk
	spoons	√	butter
✓	large bowls		plain flour
✓	piping bags	1	strong flour
✓	baking tins	✓	eggs
✓	baking paper	✓	caster sugar
✓	saucepans	✓	vanilla pods (or v
✓	sieve 79	✓	dark chocolate
✓	markt 100 markt	✓	double cream
✓	kitchen scale	This	session requires s
✓	measuring jug	vario	ous tastes and tex
		othe	r ingredients from

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CIOZ

ACTIVITY ANSWERS

The combining and tasting!

Students can choose to carry out various sensory tests to assess the éclairs, e.g. preference

The scales used can also vary, although it's important that all states the same scales

QUESTIONS TO THINK AS NO MINSWERS

- 1. Some per ef recorded include (although the negatives far outweigh the positive
 - Pr vitamins A and D from milk, cream and butter
 - Pro mg magnesium from chocolate
 - Providing vitamin B group and fibre with flour
 - Providing calcium with milk and flour
 - Providing haem iron with eggs, and non-haem iron with flour
 - Providing omega-3 fatty acids with eggs
- 2. Other popular French desserts could include:
 - Crème brûlée
 - Puff pastry
 - Tarte tatin
 - Crepes
 - Croissants
 - Madeleines
 - Chocolate soufflé
- 3. Other dishes which call for choux pastry could include
 - savoury choux buns with mush con hicken sauce
 - cream puffs (sweet, sm ് rous മാന്ത്ര്യ buns with whipped cream and icing)
 - mini choux bur a scead of croutons with cream soups
 - pr jes ves vers small, round choux buns filled with cream and covered in
 - Par (sweet choux buns filled with praline cream)
 - gounderes (savoury choux buns to which grated cheese is added)
 - beignets (deep-fried choux buns not baked)
 - churros (deep-fried choux 'fingers')
 - pommes dauphine (savoury choux buns made by adding potato mash to the c

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Zig Zag Education



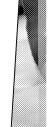
Chocolate éclairs

THE CHALLENGE OVERVIEW

Chocolate éclairs are a perfect combinctic (o) s'oux pastry, crème pâtissière and chocolate carrier : All of those strange-sounding names carrier : Marie French language.

Today you will work in the first make them all... by hand!

Beware - The carrier can be too runny, and the sauce can make the whole wisert unbearably sweet.



The c



Your challenge is to make this tricky dessert. Your task is to m component to assemble perfect éclairs at the end

INGREDIENTS

(number of servings depends on the size of éclairs made)

Choux pastry:

- ☐ Water
- □ Milk
- □ Butter
- ☐ Plain and/or strong flo
- Eggs

Crème p

- Sugar
- ☐ Flour
- □ Eggs
- Vanilla pods
- ☐ Milk

Chocolate ganache:

- □ Dark chocolate
- □ Double cream

PROCED

The model procedures for eagiven on the student's works

| Evne of his with ingredients | Chain various results!

QUESTIONS TO THINK ABOUT

Discuss these questions with a partner or write note: ... your books.

- 1. Éclairs, like other sweets, should be ten too often due to their high calculate ingredients and try in first some positive health benefits of eating éclairs.
- 2. Éclairs are a clair in part characteristic of French cuisine. List other popular France The Brance Brance The Brance Brance The Brance Bran
- 3. List three dishes that could use choux pastry. (Section B:5)

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CION



Chocolate éclairs - Don't break a

YOUR TASK

Divide into three groups – each group will a variation of a cifferent task. Greenstry, group 2 will make the cream "ling" and group 3 will make a There is a basic recipe for classic sprovided, but in each methods, recipes and second second

At the experiesson, the components will be assembled together provide you with a basic recipe for chocolate éclairs, but don't be bit more! Maybe you will come up with a better combination?

Group 1 - the bakers

The basic recipe for choux pastry is given below. Divide into 2–3 subgroups and Will you add extra ingredients (e.g. another kind of flour, salt, milk, sugar) or chamixer instead of a wooden spoon)? Or vary the size of the puffs?

Remember to note down all differences, as you will need to compare the outcome to complete this task.

Your recipe for delicious choux:

Ingredients (basic):		until the butter is melted
□ 60g stree 7 p² 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	2	Tip the flour in and beat vigorously w until the mixture comes out easily off walls
☐ 2 eggs	3	Take off the heat and whisk in the egg
	4	Pipe the mixture out onto a lined bak
	5	Bake at 200°C until golden and firm to *the time will depend on the size of your puff
Ingredients: ☐ ☐		Procedure
	1.	
Other important info	3.	
ed works."	4.	
	5.	

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Zig Zag Education

PROCEDURE

cur the water into a saucepan and a

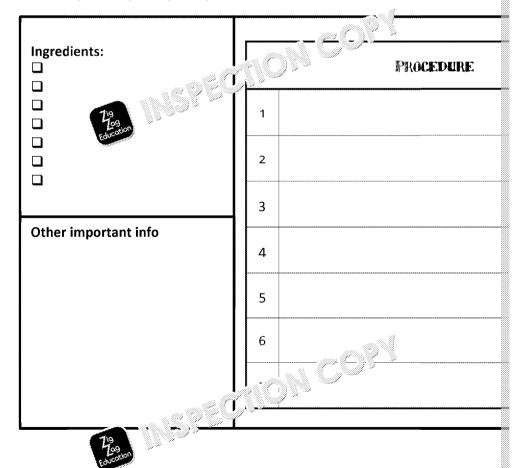
Group 2 - the confectioners

Your task is to prepare various kinds of filling for the éclairs. Below you can fine pâtissière. What other fillings can you make? Will you use different ingredients flour), or vary the texture, colour or flavour (e.g. add cocoa or lemon zest)? How and tasty? Maybe you can think of a savoury filling? Divide into 2–3 subgroups

Remember to note down all differences, as you will be obtained to complete this task.

		PROCEDURE			
Ingredien sic):	1	Remove the seeds from the vanilla pos saucepan together with milk, and bring			
☐ 50g plain flour☐ 1 egg yolk	2	In a large bowl, combine together the sugar, and whisk until pale and creams			
_ 33 , □ 1 whole egg	3	Sift the flour into the eggs and mix vig			
□ 500ml milk□ 1 vanilla pod	4	Once the milk is boiling, pour it gently combine (quickly!)			
	5	Transfer the mixture into the saucepa five minutes, stirring constantly			

Your recipe for a yummy filling:



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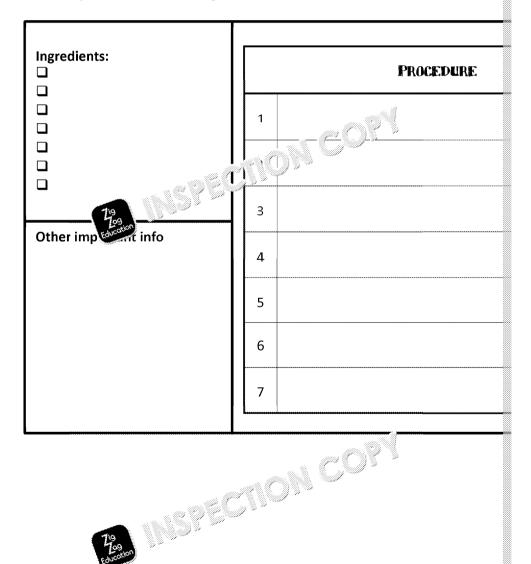
Group 3 – the decorators

Your task is to prepare a delicious sauce to spread, sprinkle or pour over the écoprocedure for a basic chocolate ganache. Don't be afraid to experiment a little between texture, viscosity, colour or flavour of the topping? Maybe you will make a savour decoration method? Let your imagination be your guide! **Divide into 2–3 subgroup**

Remember to note down all differences, as you will not be compared the outcome to complete this task.

		100000
Ingredier Fooici		PROCEDURE
Ingredier (100 ic). □ 100g	1	Pour the cream into a saucepan and b
chocolate	2	Crush the chocolate into a bowl
☐ 100ml double cream	3	Once the cream is boiling, pour it over whisk until smooth

Your recipe for the best coating:



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The combining and tasting!

Now it's time for all of you to cooperate. Assemble the different components in labelling each one. Then prepare a tasting panel and work out which component time it is up to you to choose what kind of a tasting method you're going to use, a judge the samples and how to set up the tasting panel.

Use the table below to describe the éclairs you manage in class. We have

		Filling
- 73 - S	s inch x 1 inch puffs, 2 inch high, hollow	Banana cream with cinnamon
Sample 1		
Sample 2		
Sample 3		
Sample 4		
Sample 5	pa C	
Sample 6	250NDN	
Sample 7		
Sample 8		
Sample 9		
Sample 10		
Sample 11		
Sample 12		
Sample 13 79 Company of the state of the sta		
Sample 14		

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THE TASTING PANEL Method: Scale

Take the time to evaluate this challenge, noting down anything you learnt from next time.



Tiramisu

TEACHER'S GUIDANCE

WHAT'S COVERED IN THIS SESSION:

- ✓ creaming
- ✓ remedying kitchen file
- ✓ baking g t Jand food
- ✓ makin
 ✓ yered dish

LEARNING

audents should be able to:

- modify recipes to obtain to use their skills and knowled given dish
- assess how temperature as consistency/texture of a disciplination identify common mistakes remedy the situation in east

SAFETY TIPS

- ! Make sure that students allergic to any food ingredient do not active challenge (encourage them to measure times and write notes, if possession include **wheat**, **milk** and **eggs**.
- ! Remind students about the safety rules when handling high-risk foods them to prevent cross-contamination of foods.
- ! Ensure that students follow safety rules when handling hot foods and @

GUIDANCE FOR DELIVERY:

- **Do NOT** give the challenge overview page to strong ignt away. Instead, let ingredients from the pantry first, and coloring them the overview card. The so that they can obtain a good to them if they don't have the ingredients so get strong flour instead of vanilla
- Prior to the sss of their recipe.
- Chilling **Conserved Served Ser
- Plan at least one hour to cook and one hour to complete the tasting panel. Maked days (or at least on the first and last lesson the same day).
- Since the recipe calls for egg yolks only, consider using the egg whites to carry out and

WHAT YOU WILL NEED:

	Equipment:		In
✓	ovens	Mus	t-have ingredients:
✓	fridge	\checkmark	eggs
✓	food processors, hand mixers, whisks	\checkmark	caster sugar
✓	cling film	./	vanilla extract
✓	baking paper		salt
✓	large baking tins	1	plain flour
✓	tins or dishes to assemble the	\checkmark	mascarpone chees
✓	large bowls	\checkmark	coffee
✓	kitchen seele	✓	cocoa powder
✓	meas $\mathcal{L}_{e_9}^9$ g	Add	litional ingredients:
✓	piping Education	✓	various food colour
✓	sieves	✓	fresh or frozen frui
✓	a timer to time students' 'shopping time'	\checkmark	different types of f
✓	shopping baskets or large carton boxes or trays	\checkmark	different types of s
		\checkmark	other types of che ϵ
			cheese, ricotta)

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ACTIVITY ANSWERS

- To speed up the process, you may also choose to use ready-to-use Savoiardi biscuit Students may wish to experiment with different types of flour and sugar to obtain
- Short biscuits should, generally, bake faster, although this depends on oven setting 3.
- Students may choose to use different types of chrown or ann, or even try to make 4. that – whichever they choose – it has the note of the sistency (not too thick and not the texture of the biscuits later
- 🚉 scrittiin 🧸 🖟 ds could include thick, smooth, sweet, creamy, bland, swe i) 5.
 - ii) cooks suggest to refrigerate / lightly freeze a curdled cheese and the
 - others suggest to heat it up until melted and then let cool and whisk ligh
 - The efficacy of the method will depend on the ingredients used, their quality
- Again, the method used will affect the texture/consistency of the final dish. If the enough to only sprinkle the biscuits lightly with coffee, while if the cream is very he roll or dip them in coffee first.

QUESTIONS TO THINK ABOUT ANSWERS

- Egg whites can be used for the following (examples):
 - A meringue, e.g. for Pavlova dessert
 - Macaroons
 - Egg white omelette
 - To glaze bread, bagels or bread rolls
 - To make frosting
 - To replace gelatine in mous-
 - To make egg white 😭 🐾
 - Any others and tell, andle
- eeses include: Some It 2.
 - Mozzarella
 - Ricotta
 - Parmesan
 - Gorgonzola
 - Grana Padano
 - Pecorino
 - Taleggio

Some British cheeses include:

- Cheddar
- Red Leicester
- **Double Gloucester** viue the
- Stilton
- Dorset blue
- Caerphilly
- Swaledale
- Cornish blue

- Sage derby
- Wensleydale
- That's because caster sugar has smaller crystals, which improve the texture, and make 3.

CION



Tiramisu

THE CHALLENGE OVERVIEW

Tiramisu is an Italian dessert made of Iran is a late of its and cream, sprinkled with cocoa or a late of the trickiest desserts out there! The bissuits and some out more as a pudding than a cake!

Tirar

PROCEDUR.

THE RESERVE TO SERVE TO SERVE

Your challenge is to make this tricky dessert by choosing the correct obtain the best quality tiramisu in class.

INGREDIENTS

Makes 8 servings

Ladyfingers:

- 4 eggs
- □ 125g caster sugar
- ☐ 1 tsp vanilla extract
- ☐ 1/8 tsp salt
- □ 115g plain flour

Cream:

- □ 500g 🔑 pc 32 cheese
- ☐ 150g cateducate ugar
- ☐ 6 egg yolks
- □ 500ml strong coffee
- Powdered cocoa



# NOCES				
For the	e ladyfingers:			
1	Preheat the oven to 190°			
2	Beat the egg yolks with v			
	th <u>s</u> ar			
l (22)	🌖 🌣 separate bowl, whisk			
<u>, </u>	gradually adding salt and			
4	Combine the whisked egg			
5	Sift in the flour and gentl			
6	Pipe out on a baking tin a			
	minutes			
For the	e cream:			
_	In a large bowl, whisk the			
7	until pale and fluffy			
8	Slowly add the cheese			
To ass	emble the cakes:			
	Dip the ladyfingers in cof			
9	dish			
10	Spread half of the cream			
11	Arrange another layer of			
12	Sprinkle the top with a th			
12	ກຸ່ນ r or chocolate shav			

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QUESTIONS TO THINK #5.05

Discuss the search state of write notes in your books.

- 1. The real loss for egg yolks only. To prevent food waste, list at least five degg white (Section 8: 3)
- 2. Mascarpone is a classic Italian cheese. List five other cheeses that originate originate in Britain. (Section B: 5)
- 3. Why do recipes for baking usually call for caster sugar, and not for regular w

Tiramisu - The balancing a

Your TASK

Other ingredients:

As simple as it can seem, tiramisu can be very mimsical. This classis two layers of biscuit and cream topy with cocoa powder. The prassembling the ingredient as your easily come out soggy and har rather than a cake of the cake the cake the cake. Remember – balance is key!

Divide into three groups – in each group you can divide again so the biscuit and the other subgroup makes the cream.

 Let's start by doing the shopping. Grab a tray or a basket and run to the pa Remember, you only have five minutes... and can't go back!

We prepared a little shopping list for you, but feel free to amend it or add a

THE SHOPPING LIST:					
Sugar – choose from: caster icing brown white other.	Flour – choose from: plain all port isc solid self-raising other		Powders choose in mile 50% properties 70% properties of the first content of the first choose in the first		
Cheese – cheese from: □ 500g mascarpone cheese OR □ mascarpone cheese and double □ other type of cheese		Black coffee ☐ ground ☐ instant ☐ decaf ☐ other fla	- choose fr		

2. Once you're back to your worktop, prepare for step 1 of the procedures –

Ladyfingers, also known as Savoiardi biscuits, arg spilige like, firm, sweet, lo crunchy crust.

- i) Your teacher will provide your a procedure for making them. Do you
- ii) If not you by soive the problem? Did you try to amend the texture from reassmates? Or maybe you chose not to make the ladyfingers included.

Use the space on the following page to describe and justify all your choose the basic recipe.

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e.g. vanilla extract, fresh or frozen fruit, salt

Once the pastry is done, you need to pipe it out. Line a baking tin wit 3. pastry. Do you go for long stripes or rather short ladyfingers which mig later on? ii) Did that affect baking time? Was it shorter or longer than for others? Set the lady let cool – it's time to make the cream! ask yourself if you have all the ingredients. If not, what are you borrow from somebody else? Or maybe you will make a different kind of cr Describe and justify all changes made to the basic recipe provided, as this made to the basic recipe provided, as this made to the basic recipe provided and the basic recipies and the

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5. i) Complete the spider diagram below to describe the consistency of your creamy, runny? Or maybe it curdled? Use as many descriptive words



If the cream didn't come out well, is there a way to save it, or would you

		anew? If you're trying to remedy the situation, describe what you're do
6.		bis
	Orig	ginally, the biscuits should be covered with coffee. How do you do this?
		Soak them in a bowl of coffee
		Dip them for a short time in coffee
		Roll them lightly in coffee
		Arrange them in the dish and sprinkle or pour the coffee on top
		Other method:
7.	Spre	ead half of your cream on top, arrange another layer of biscuits and crea
8.	Wh	at do you choose to coat the cake with? occor owder, instant coffee, s
chocolate shav		colate shavings, something elections
	•••••	
	•••••	daraha
Onc	e the	e cake is done, cover it with cling film and refrigerate overnight. You w

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ii)

lesson.

9. During the last lesson you prepared tiramisu dessert. It is time to take it ou your cooking choices worked out well... or not so well.

Set up a taste panel. Use a 1 to 5 scale, where 1 stands for 'no/poor' and 5 stands to see whose cake scored the most.

	My tiramisu	Tiramisu 2
Overall texture is good –		
the cake doesn't fall		
apart when cut		
The moistness of cala		
good - to 5	7"	
and ri		
The creamy		
and set, not runny,		
curdled or tough		
The biscuits are still a bit		
crunchy, not soaked or		
mushed, but not hard		
either		
Total:		
i otai.		

١.	Whose cake scored the most? Compare preparation and cooking stages to made this cake better than the others.
	Edication

Take the time to evaluate this challenge, noting down anything you learnt from change next time.



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Crème Caramel

TEACHER'S GUIDANCE

WHAT'S COVERED IN THIS SESSION:

- √ caramelisation
- ✓ settir
- ✓ use of the desired ten

LEARNING

Students should be able to:

- assess how the size of a setting time for a desser
 - use skills and knowledge

SAFETY TIPS

- ! Make sure that students allergic to any food ingredient do not challenge (encourage them to measure times and write notes, used in this session include milk and eggs.
- ! Remind students about the safety rules when handling high-risk they apply them to prevent cross-contamination of foods.
- ! Ensure that students follow safety rules when handling hot food

GUIDANCE FOR DELIVERY:

- Explain to students what a bain-mariginal district is used for in cooking.
 - O A bain-marie (also know a come bath) is a method in which a large water and place of the while another saucepan is placed upon it. The mode of the which could easily burn for the catering industry.
- Watch carefully while students prepare caramel, as the high heat may pose...
- When planning this session, reserve one hour to cook and one hour to set up they are on consecutive days.
- Give students access to the samples between lessons they will need to chested between.

WHAT YOU WILL NEED:

ı		Equipment:		li
I	✓	saucepans or deep frying pans	✓	eggs
١	\checkmark	cooker		vanilla extract
۱	\checkmark	oven	\	caster sugar
ı	\checkmark	deep baking dishes	✓	whipping cream
ı	\checkmark	fridge	✓	water
ı	\checkmark	small ramekins – and an Enorall		
١	\checkmark	whisk		
۱	\checkmark	butte king oil (optional)		
L	✓	brush (optional)		

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CION



ACTIVITY ANSWERS

- 1. It is worth considering greasing the sides of the ramekins with butter. This should he sticking to the sides, while the caramel will protect it from sticking to the bottom.
- 2. i) The ingredients needed to make caramel include sugar, and a small amount of (e.g. 60g of sugar and 20ml of water, or 75g of sugar 3,25ml of water).
 - ii) It is best not to stir caramel during cooking fit wers the temperature and cooking fit were the cooking f
 - iii) It might be best to use me and it is as it helps to control the process. Low he sugar, and high have a few sugar to burn very quickly.
- 3. Studen Coserve that the caramel cools and sets very quickly, forming a hard with flat to the caramel cools and sets very quickly, forming a hard
- 4. i) This helps to remove air bubbles from the flan, making its texture very creamy
 - ii) It uses whole eggs, while crème brûlée uses egg yolks only. Also, the baking tie (it's shorter for crème caramel). The recipe for crème caramel calls for the use brûlée it is optional.
 - iii) There are various types of custard, which differ in texture and consistency (alt unchanged). These could include:
 - crème anglaise (light pouring custard sauce)
 - crème pâtissière (spreading cream used in cakes and desserts)
 - set custards, such as semifreddo
- 5. i) The flan should be lightly set on the surface, but may still be liquid in the centre
 - ii) No changes should be observable yet.
 - iii) The flan may already start to set ; caramel at the bottom is still very the
 - iv) The caramel might have discovered enough to remove it comfortably from
 - v) The caramel is softened, creating an attractive pouring s

QUESTIONS TO THINK ABOUT ANSWERS

- Dextrinisation of starch examples include: toasting bread, browning of crust when
 Maillard reaction (not strictly required by the specification) examples include: bak
 coffee and cocoa beans, roasting cereals in beer production (the reaction takes place
 will take place in all foods which contain the two, given that the temperature is high
- 2. Examples:

Granulated white sugar – white, purified (refined) sugar with large crystals best for sweetening beverages and sprinkling on top of cereals

Caster sugar – white, purified (refined) sugar with small costs best for baking and creaming

lcing sugar – white, purified (refined's ga) wdery (very fine); often mixed with seest for delicate desserts which requires smooth texture and to create icing

Brown support fire it is added molasses best for the naking sauces and glazes

Muscovato — dark brown, fine crystals, sticky and moist best in fudge, coffee and heavy desserts such as gingerbread

Demerara – raw refined sugar, with large crystals best to sprinkle on top of cereals

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Crème caramel

THE CHALLENGE OVERVIEW

Crème caramel is a classic Spanish upside de White Spert made of set custard with caramel strong per challenging part of this dessert relates to the conjugal. How to make it properly? How to get it will also give it the perfect colour?

C⊫ al



Your challenge is to make this tricky dessert. Can you prepare the caramel top and golden caramel colour, and manage to get it out of the apart?

INGREDIENTS

Makes 6 small servings

Crème caramel:

- □ 2 eggs
- ☐ ¼ tsp vanilla extract
- □ 15g caster sugar
- 300ml whipping cream

Caramel:

- ☐ 75g ci
- □ 25ml v



		Procedur
For	the	e caramel:
1		Prepare six small ramekins
2	J. 183	Po' se sugar into a fryinggen by heat and stir until d
3		Increase the heat and boil
		Immediately pour into ran
4		bottom evenly
For	the	custard:
5		Preheat the oven to 150°C
6		Whisk slightly the eggs wit large bowl
7		Heat the cream gently and
8		Whisk the mixture until sn through a fine sieve to ren
9		Pour onto the caramel in th
10		Place the ramekins in a de warm water into the tin, n
11		Bake for 20 minutes, remo
12		Remove the pudding upsic

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QUESTIONS TO THEY SEE

Discuss the Posticias with a partner or write notes in your books.

- 1. Carameter is a chemical reaction which produces a dark brown colour. other chemical reactions produce a dark brown colouring. (Section C: 1)
- 2. List and describe at least five different types of sugar and suggest what they
 (Section C: 1)

Crème caramel - To wait or not to wait? That

YOUR TASK Your task is to make a crème caramel dessess. The first step is to prepare car at \$1,000 it only contains two ingredies out yourself what the grantow much to use! As it requires very hesitate to ask to be confer for help. CIC The seco ep is to prepare the custard, and bake and chill the one more thing – make sure that your caramel comes out of the ra done - you will need to put it upside down! Work in pairs and see who made the best crème caramel! So, here it goes... Begin by preparing the ramekins. How big are your ramekins? Are you going to grease them? ii) ves, whole yes, bottom only ves, sid are the key component – caramel. You already know only two ingredients are needed to make it... what a Ingredient 1: amount: ... Ingredient 2: amount: ... ii) When making the caramel, do you stir it? □ yes, constantly □ yes, from time to time COPYRIGHT **PROTECTED** iii) How do you cook it? on a low heat on medium ha on high iv) How long did to wake it golden brown (not burnt)? Time: mel is ready, carefully pour it into your ramekins. Swirl then surface. Let cool. What do you observe?

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Food Challenges for OCR Food Preparation: Tricky Desserts

You're halfway there! It's time to make the custard.

i)	Why does the recipe call for straining the mixture through a sieve?
ii)	How does the recipied caramel differ from that for crème
	- 759
iii)	What other kinds of custard do you know?
_	
	nove the baked crème caramel from the oven. You have six ramekin
	time plays a very important role in setting this dest. Remove the
WIR	at happened
i)	straight after baking (1st range 1)
	straight after baking (1st ram 1)
	1 723
i)	
	1 723
i)	
i)	
i) ii)	30 minutes later (2 nd ramekin)
i)	
i) ii)	30 minutes later (2 nd ramekin)
i) ii)	30 minutes later (2 nd ramekin)
i) ii)	30 minutes later (2 nd ramekin) 1 hour later (3 rd ramekin)
i) ii)	30 minutes later (2 nd ramekin)
i) ii)	30 minutes later (2 nd ramekin) 1 hour later (3 rd ramekin)
i) ii)	30 minutes later (2 nd ramekin) 1 hour later (3 rd ramekin)
i) ii)	30 minutes later (2 nd ramekin) 1 hour later (3 rd ramekin) after 6 hours (4 th ramekin)
i) ii)	30 minutes later (2 nd ramekin) 1 hour later (3 rd ramekin)
i) iii) iii)	30 minutes later (2 nd ramekin) 1 hour later (3 rd ramekin) after 6 hours (4 th ramekin)

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6. Use the 6th sample to prepare a simple tasting panel. Compare your crème caramels made in class (you don't have to try them all, we know they are sw means 'not at all' and 5 means 'yes, perfect'.

	My crème caramel	Crème caramel 2	Crème caramel 3
The pudding is completely set			
The caramel dissolved comp Light The purating is			
creamy, not tough The pudding is not too sweet			
The pudding is not curdled			
The caramel created a puddle of sauce on the plate			
Total marks:		_201	

7.	Whose crème caranal and out to be the best?
	How different tools
	How different tools

Take the time to evaluate this challenge, noting do no withing you learnt from change next time.



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Chocolate Soufflé

TEACHER'S GUIDANCE

WHAT'S COVERED IN THIS 5735 ON

- ✓ protein denaturation
- √ use of equipment
- ✓ use of +
- ✓ mech all all g methods
- ✓ steam aising agent
- ✓ safety principles when dealing with high-risk foods

LEARN

Students should b€

- identify major explain how the
- correctly use sometime, oven) to

SAFETY TIPS

- Make sure that students allergic to any food ingredient do not challenge (encourage them to measure times and write notes, used in this session include **milk** and **eggs**. Chocolate may also allergens, such as **peanuts** and **nuts**. Read the label carefully.
- ! Remind students about the safety rules when handling high-risk they apply them to prevent cross-contamination of foods.
- ! Ensure that students follow safety rules when handling hot food

GUIDANCE FOR DELIVERY:

- Prior to the lesson, remay see it greatents from the fridge so that they are
- Pay special attermination for dealing with hot ovens and ramekins.

WHAT WILL NEED:

	Equipment:		I.
√	4cm high ramekins – at least four per group	✓	dark chocolate (
✓	brushes	✓	icing sugar
✓	cloths	✓	eggs
✓	large bowls	✓	butter
✓	saucepans	✓	caster sugar
✓	whisks, hand mixers or food processors	✓	cream of tartar
✓	ovens and cookers	Oth	er kinds of chocold
✓	kitchen scale	use	ful, especially if yo
✓	ruler or measuring tape	٠,	re than two group:
✓	broad knife		
✓	spatulas	1	
✓	timer – students can use the major is their		
	smartphones		

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NSPECTION N



ACTIVITY ANSWERS

- Carefully following procedure 1 should ensure satisfying results. 1.
 - Greasing the ramekins will prevent the soufflé from sticking and will help it ris
 - Preheating the oven will ensure that the soufflé is baked for the correct amou temperature.
 - Using a double boiler (bain-marie) will prevent the court ate from frothing/bu
 - Beating the egg yolks with sugar will ensure and, or all aming and airy texture
 - Overbeating the egg whites can crow in woollapse and leak water (this is soufflé might turn out a bi ுவர், ட் ac's why it's important to only whisk it un
 - Gently folding the 2 November Stirring them
 - tant that there are no air pockets or spaces left, as the air would exp sou Education rise unevenly.
 - The surface must be levelled for the same reason.
 - Cleaning the edge will prevent the soufflé from sticking to it, and will enable p
 - It's best to place the soufflé at the bottom of the oven, where the temperatur Placing it on top may cause the top to crack and the centre to set too quickly.
- The soufflés made using procedure 1 should be well-risen, with an even, level top. 2. ramekin's edge.
- The soufflés made using procedure 1 should have a moist, light centre. 3.
- Procedure 1. 4.
- Mistakes are outlined above, see Q1. 5.
- 6. This is because during baking the air inside the source (e) index causing it to rise. Or the air 'shrinks' back, causing the mixture to called softmore or less, depending on ho denatured).

QUESTIC COLIHINK ABOUT ANSWERS

- Steam (physical). 1.
- Best before unlike all other fresh foods. 2.
- Some of the food safety principles in this case include: 3.
 - Checking the date mark on the eggs
 - Checking if the eggs are stamped with the Red Lion logo to ensure the hens we
 - Checking that the eggs are not broken or cracked
 - Washing the eggs in hot soapy water
 - Washing hands before and after handling the eggs
 - Cleaning all spillage immediately with hot soapy water
- Examples may include: 4.
 - soufflé
 - crème brûlée
 - meringue
 - bread pudding

 - custard
 - eggnog
 - lemon curd
 - omelette
 - egg custard tarts

NSPECTION



Chocolate soufflé

THE CHALLENGE OVERVIEW

Soufflé is a very light and airy dish made trit or the eighteenth century in France Considered one of the trial of the eight arts, which doesn't forgive any mistakes and requires the eight after tion and patience. Wrong temperation to much chocolate and boom! Y the eight and with a sunken soufflé!

Hel



Your challenge is to make this tricky dessert. Can you prepare the his top of the class? Get your ruler ready, get set

INGREDIENTS

Each batch makes 3-4 small servings

Chocolate soufflé:

- dark chocolate
- icing sugar
- □ eggs

- □ butt
 -] caster sugar] cream of tartar



PROCED

The dures are given on one heet. Each group will procedure to spot the mistal they negatively affect the so

QUESTIONS TO THINK ABOUT

Discuss these questions with a partner or write notes in your books.

- 1. What is the main raising agent in a soufflé? (Section C: 1)
- 2. What kind of a date mark is used on eggs? (Section C: 3)
- 3. What are the food safety principles which have to be applied when dealing
- 4. List five other desserts which are based on eggs.



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Zig Zag Education

Chocolata scufflé - Dont get

YOUR TASK

Your task is perceived as being very trick myth has a least truth to it!

You will be divided into two groups, each one following a different procedure. At the see why certain actions have to be taken to ensure the soufflé is fluffy and rises evenly stage as this will help you to spot the mistakes sooner.

In this science experiment you will check how a dark chocolate soufflé acts during bakkinds of chocolate, e.g. white or milk!

Make sure you're following the procedures 1/3/3W (L) ly!

1. In the fields provided, tick which തര്ലേ നായ് are following.

Write down your ob. The aryou go, e.g. how long did it take you to whisk the egg whites, when

Accaton are 1 🗆	Procedure 2 □	
Take a tall ramekin (about 4cm high), grease evenly with butter and sprinkle with caster sugar	Take a tall ramekin (about 4cm high) Do not grease or line	
Preheat the oven to 180°C	Prehor v. j. n w 140°C	



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Procedure 1 □	Procedure 2 □	Observ	vations
Break 100g of chocolate into pieces, place in a bowl or a small saucepan together with 25g of butter and melt over a double boiler	Break 100g of chocolate into pieces, place in a bowl or a small saucepan together with 25g of butter and melt on a hob		
Beat two egg yolks with 50g of icing sugar until pale and fluffy	Lightly whisk to see the sog		
Pour the melted chocol butter into the egg γolks and whisk	Pour the melted chocolate and butter into the egg yolks and whisk		
Whisk three egg whites with a pinch of cream of tartar until soft peaks form	Whisk three egg whites until stiff peaks form		
Fold the egg whites gently into the chocolate mixture	Whisk the sawh E sorously into the same axture		
Pour the mixture into the discharge ramekins until full, making sure there are no air pockets or spaces	Pour the mixture into the ramekins until full		
Level the surface of the mixture with a flat knife or spatula	Do not level the surface of the mixture, leave a small peak on c side		



Procedure 1 🗖	Procedure 2 🖵	Observations
Clean the edge of the ramekin		
with a cloth or your finger		
		
Dalla fauto minutas an tha		
Bake for 10 minutes on the bottom shelf of the oven (not	Bake for five ning to bottom	
fan-assisted)	shelf c (or (not fan-assisted)	
Tull ussisted)		
790		
Education	Place the ramekins on the top shelf	
	of the oven and bake for another	
	five minutes	
Remove from the oven and	Remove from the oven and compare	
compare the results	the results	
		-
79		
Education		

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79 Tric in Jerts

Once the soufflés are baked, measure them with a ruler to check how high to Attach a picture of both soufflés and label them with their height and the pr were made. Now take the soufflés out of their dishes and cut them in half to compare the a picture or describe it below. Which procedure was the confection 5. amitted when using the incorrect procedure. Explain Mistake COPYRIGHT **PROTECTED**

Mistake 6: Mistake 9: Mistake 10:..... 6. why ALL soufflés sink (more or less) after they have cooled do Try to e Take the time to evaluate this challenge, noting down anything you learnt from change next time.

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Lava Cake

TEACHER'S GUIDANCE

WHAT'S COVERED IN THIS SESSION:

- setting a mixture
- poning i le h-risk food products
- time nagement when cooking preparation for the NEA

LEARNING

Students should be able to:

adjust the cooking temp desired results

SAFETY TIPS

- Make sure that students allergic to any food ingredient do not challenge (encourage them to measure times and write notes) used in this session include milk, wheat and eggs. Chocolate management other allergens, such as **peanuts** and **nuts**. Read the label care
- ! Remind students about the safety rules when handling high-risk they apply them to prevent cross-contamination of foods.
- Ensure that students follow safety rules when ' indling hot food

GUIDANCE FOR DEP

For gree \mathcal{L}_{sa} is \mathcal{L}_{sa} the microwave) – the ramekins should be baked one after kult to fit them all at once into the microwave oven; however, adjust the timing to obtain the desired result when cooking

WHAT YOU WILL NEED:

	Equipment:		I
√	oven	✓	dark chocolate o
✓	cooker	✓	unsalted butter
✓	saucepans	✓	eggs
✓	large bowls	✓	caster sugar
✓	ramekins in three different sizes	✓ :	plain flour
✓	microwave	1	vanilla extract
✓	brush	Opt	ionally: fresh seas
✓	fine sieve		
✓	whisks, hand mixers () ocessor		
✓	kitchen seele		
✓	time: 🔑 en s can use the timers in their		
	smart, Educations		
✓	knives		

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ACTIVITY ANSWERS

Group 1

Since the ramekins used are very small, the cooking time should be accordingly shorter – that time the dessert will be fully baked/set – and couldn't be called a lava cake any more delicious chocolate cupcake!).

The time of cooking should be around 8–9 min n

Group 3

The time of cool g s' 🤃 😘 Joand 10—11 minutes.

ek) removed from the oven are very hot and continue to cook their them from th even if they look still raw.

Group 4

The time of cooking will depend on the power of the microwave. Usually 2-3 minutes are

Conclusions

- The smaller the dish, the shorter the cooking time. Also, as the ramekin gets hot, it after it has been removed from the oven, so it may be necessary to take the cake o uncooked.
- i) Fruit coulis is a type of smooth, strained fruit sauce. 2.
 - ii) To prepare a coulis one might need a blender, and a fine sieve/strainer to rem strawberries and raspberries) and pieces of skin.
 - Benefits of adding a fruit coulis:
 - The fruit coulis improves the flavour of the _____t,
 - adds colour and improves appearance making the dessert more appetision
 - and improves the nutrition of any and providing vitamins and minerals (d

GTHINK ABOUT ANSWERS QUESTIC

- 1. Although lava cake is technically an under-baked cake, it can be considered safe as middle reaches at least 75°C. However, we suggest not to try to eat the uncooked (those which were baked for too short of a time) due to a small risk of food poisoni the temperature inside the under-baked cakes and assess whether they consider the
- The main steps in production of flour include: 2.
 - Harvesting the grains and transporting them to the mill
 - Purification, e.g. rinsing out and sieving out dirt, stones, sticks and other
 - Washing in warm water and drying to soften the grains
 - Tempering to adjust the moistness of the grains

 - Separating into farina, semolina and so called 'middling'
 - Processing, e.g. bleaching, fortifying, adding for an agants, packing into ba
- Examples: 3.

	Dry cocoa solids	C A: - A: -
White 7 ate	w-	A ⁻
Milk ch education	At least 25%	-
Plain chocolate	At least 35%	A:
Dark chocolate	From 50% up	-

Butter (from milk), eggs, gluten (from flour), wheat (from flour) are allergens which label.



Lava Cake

THE CHALLENGE OVERVIEW

This dessert should welcome you with a warn the wing out of it when cut... But making the land, wish't that easy! From the size of the dish, to the real war and the cooking time – everything may also your dessert to be a fail!



Will



Your challenge is to make this tricky dessert. Can you adjust the cool up with a cake with a liquid centre?

INGREDIENTS

Makes 4 large servings

Lava cake:

- 135g dark chocolate
- ☐ 65g unsalted butter
- ☐ 2 eggs
- 45g caster sugar
- 25g plain flour
- 」 1 tsp vanilla ex⁺∷

You c. 29
serve v Education

pr pare a fruit coulis to s dessert.

Note: Allergens have not been bolded in this ingredients list, due to Q4 below. See answers for allergens.

1 2 3

		PROCEI
	1	Preheat the oven to 2
	2	Grease ramekins with
	_	Break up the chocola
	3	with butter in a doub
		ો અ at the eggs with su
	42	until pale and fluffy
4	7.	Add the chocolate an
	5	eggs and whisk until s
	6	Sift the flour into the
	_	Pour the batter into t
	7	full
	8	Bake on the middle sl
	_	Remove the cakes ge
9	9	placing them upside @

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QUESTIONS TO THINK ABOUT

Discuss these questions with a partner or write notes in your books.

- 1. Can lava cake be considered high-risk food? (Section C: 3)
- 2. A lot of dessert recipes call for the use of flour. Outline how flour is made.
- 3. Chocolate is available in many varieties. Investigate the abels of various type white, dark) to see how much cocoa butter and the solids is used to make
- 4. List allergens present in lava cake on a food label? (Section C.5)



Lava cake - Show me a good

YOUR TASK

Divide into four groups. Each group will fastified with a different and cooking method. Your task is a liquid centre and soft spended and You can prepare one large batter to make sure and a faction of affect the texture. Follow completed as a factor experiment!

Make sure you compare your outcomes with those of your classmal done, and answer the question: how do you adjust the cooking time the dish used?

Group 1

- 1. Your group will use 100ml ramekins. Prepare at least six of them to make at each stage. Remove one ramekin from the oven after 2, 4, 6, 8, 10 and 12 minute or two until cooled and take out of the ramekin. Cut in half to see with the cooled and take out of the ramekin.
- 2. Fill in the table below to describe the texture after different baking times.

Baking time	Texture
2 minutes	
4 n 2000 2000	
6 minutes	
8 minutes	
10 minutes	
12 179	

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Group 2

- 1. Your group will use 150ml ramekins. Prepare at least six of them to make at each stage. Remove one ramekin from the oven after 4, 6, 8, 10, 12 and 14 minute or two until cooled and take out of the ramekin. Cut in half to see w
- 2. Fill in the table below to describe the texture after different baking times.

Baking time	Texture
4 minutes	
6 minutes	
8 minutes	
10 minutes	
12 minutes	
14 1 79 6ducation	



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Group 3

- 1. Your group will use 200ml ramekins. Prepare at least six of them to make at each stage. Remove one ramekin from the oven after 6, 8, 10, 12, 14 and minute or two until cooled and take out of the ramekin. Cut in half to see where the cooled are the cooled and take out of the ramekin.
- 2. Fill in the table below to describe the texture after different baking times.

Baking time	Texture
Daking time	texture
6 minutes	
8 minutes	
10 minutes	
12 minutes	
14 minutes	
16 n 719	

3. What is the perfect time to bake a lava cake in 200ml ramekins?...............



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Group 4

- 1. Your group will use 150ml ramekins but will bake the dessert in a microwal Prepare at least six ramekins to make sure you can check the texture at each from the microwave after 1, 2, 3, 4, 5 and 6 minutes, wait a minute or until coramekin. Cut in half to see what's inside! Make sure the microwave is set on
- 2. Fill in the table below to describe the texture art represent microwaving time

Microwaving time		Texture
Tes te		
2 minutes		
3 minutes		
4 minutes	rejongo? ¹	
79 Education tes		
6 minutes		

- 3. i) What is the power of the microwave?.....

 - iii) If so, what is the perfect time to the particle in 150ml ramekins in a



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	ons
Hov	v should you adjust the cooking time accordingly to the size of the dish
In ti	ne overview we mention that you can present a full coulis to serve wit
i)	What is a fruit coulis?
ii)	What equipment/tools do you need to prepare it? Draw or list them be
iii)	W to benefits of adding a fruit coulis to a chocolate dessert su

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Napoleons

TEACHER'S GUIDANCE

WHAT'S COVERED IN THIS...

- blind baking
- use of the oven
- adjustin maki. T
- raising mods preventing rising by the use of weights, piercing the pastry with a fork, or weighing the pastry down with another baking tin (to brown the top)

LEAR

Students should

- use skills and desired result raising)
- prepare a sim pastry

SAFETY TIPS

- Make sure that students allergic to any food ingredient do not challenge (encourage them to measure times and write notes) used in this session include milk and wheat.
- Remind students about the safety rules when handling high-risk they apply them to prevent cross-contamination of foods.
- Ensure that students follow safety rules when the halling hot food

GUIDANCE FOR DELIN

- y to-use puff pastry to save time.
- g this session, reserve two hours to prepare the puff pastry ar (assemb the cake.

WHAT YOU WILL NEED:

Equipment:		li
✓ flat metal baking tins	✓	butter
✓ ovens	✓	plain flour
✓ baking paper, cling film, aluminium foil for	✓	water
students to choose from	✓	salt
✓ baking weights, dried beans, lentils, rice, penny	✓	whipping cream
coins or other potential weights for students to	✓	icing sugar
choose from		vanilla pod (or va
✓ ready-to-use puff pastry (if used)	V	orange zest
✓ whisks, hand mixers or food progessor	✓	cocoa powder
✓ spatulas		
✓ large bowls		
✓ rollin 19		
✓ zestel character		
students to choose from ✓ baking weights, dried beans, lentils, rice, penny coins or other potential weights for students to choose from ✓ ready-to-use puff pastry (if used) ✓ whisks, hand mixers or food prosesses spatulas ✓ large bowls ✓ rollin	*	salt whipping creat icing sugar vanilla pod (or orange zest

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NSPECTION N



ACTIVITY ANSWERS

- 2. Flaky pastry rises thanks to butter, which melts and produces steam.
 - During baking the steam expands and causes the layers of pastry above it to rise
 - Flaky pastry uses mechanical raising methods (folding, rubbing-in) and steam.
- 3. This can be done, for example, by covering the raw to to with baking paper and on top.
 - They will allow it to rise very gently ay, while not making it soggy.
 - Some cooks also place and well tin on top of the pastry to prevent it from the tin will heat the same pastry from the top.
 - Regregation and the pastry are the pastry are
- 6. i) This depends on the quality of the cream prepared, and on the quality of the factorial knife or a spatula to spread the cream, and use only light touches to spread it
 - ii) The cake may fall over if the pastry is uneven or if the cream is unevenly spread cream is too wet/runny.
 - iii) Students should identify methods different to those used during this session, accurate/efficient when making this kind of a layered dessert.

QUESTIONS TO THINK ABOUT ANSWERS

- 1. Shortening
- 2. Usually the fat content of cream is as follows:
 - single cream usually has 18% fat (not suitable for "h jit t)
 - whipping cream 36% (suitable for whipping)
 - double cream 48% (suitable for 'v')
 - soured cream from 12% to 10% 1) ... witable for whipping)
 - crème fraiche മാ ്യാഹ്മ്മിe for whipping)

Low-fa 12 es 📜 not suitable for whipping, unless a stabiliser is added to them.

3. The dessert originated in Naples (Italy) where it is called *millefoglie* (from French *m*

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Napoleons

For the flaky pastry:

THE CHALLENGE OVERVIEW

A Napoleon is a type of cake traditionally of (six) of three layers of puff pastry and two layers of the layers of puff pastry and two layers of the layers of puff pastry and two layers of the layers of puff pastry and two layers of puff pastry and two layers of puff pastry and two layers of puff pastry and layers of puff pastry are key for the layers of layers of pastry are key for the layers of layers



How



Your challenge is to make this tricky dessert. You will discover how from rising, and to keep the whole dessert flat as

INGREDIENTS

Makes 8 servings

Flaky pastry:

- ☐ 75g butter
- □ 110g plain flour
- ☐ 3 tbsp cold water
- □ Pinch of salt

Cream:

- □ 300 mlwbip; inc.
- ☐ 2 tb: Pos sugar
- □ 1 vani Education
- Orange zest

Icing:

- 100g icing sugar
- Warm water
- ☐ 1 tsp cocoa powder

PROCEDUR

	ne naky pastry.			
1	Sift the flour and salt into a			
2	Grate the cold butter into th			
	spoof coat all butter with			
3	ာ or ှာ Je water on the mixtu			
	with a spoon			
Λ	Finish kneading the pastry v			
4	in cling film and refrigerate			
г	Take out of the fridge, roll f			
5	rectangular sheets			
6	Blind bake until golden			
Fort	he cream:			
For t				
7	he cream: Whip the cream until fluffy At the end add sugar, vanilla			
	Whip the cream until fluffy At the end add sugar, vanilla			
7 8	Whip the cream until fluffy			
7 8 For t	Whip the cream until fluffy At the end add sugar, vanilla the pods and some orange z			
7 8	Whip the cream until fluffy and the end add sugar, vanillathe pods and some orange and the icing:			
7 8 For t 9	Whip the cream until fluffy At the end add sugar, vanilla the pods and some orange z he icing: Mix the icing sugar with wat			
7 8 For t	Whip the cream until fluffy and the end add sugar, vanillathe pods and some orange and the icing: Mix the icing sugar with was double cream)			

તાં તાંe ⊙ocoa icing

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QUESTIONS TO THINK SELVE

Discuss the street street in your books.

- 1. What it is ime of the chemical process used to make a pastry crumbly?
- 2. Some recepes call for double cream, some for whipping or single cream. What of cream? Which of them are suitable for whipping? (Section C:1)
- 3. What is the other name for Napoleons and where does this dessert come fr

Napoleons - Dont get mad, gel

YOUR TASK

A traditional Napoleon cake is made of the Eyers of puff pastry between, coated with icing and patterns. It is similar to the cream is substituted with a gipane – like almond – based made flaky pastry to a gipane.

Your tas 400 3 vent the cake from rising so that the layers of the and easy seemble with the cream. Divide into four groups to sefficient!

1.	веg	in by indicating what pastry you are going to use.
		Hand-made (you can make it in class or prepare it at home and bring it Bought-in (ready-to-use pastry)
	Indi	cate what raising agents and methods are used in a puff pastry:
2.	Ok,	so you want to make your pastry as flat as possible - out still light and fl
	i)	Use this opportunity to experiment with values and rises less? Or maybe stemperature? Describe now you are going to prevent your pastry from
		(Zinger)
	ii)	Sometimes chefs use special techniques for blind baking, such as using you use to weigh down your puff pastry (and yet allow the layers to for
	iii)	How much of that substance/item are you going to use? Weigh it using
	iv)	Are you going to cover your pastry for the baking? If yes, what
	iv)	Hc did it take you to bake your pastry?

As a test, you can bake one sheet of pastry without any weights to see how it act as a control sample during the taste test.

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4. Once your pastry is baked, compare it with those made by your classmates.

	Group 1 Group 2	Group
For blin 199 w used (& covoring of baking weights)		
The height of the baked pastry is (e.g. 5mm)		
The pastry is (e.g. moist, soggy, sticky, crumbly, even, uneven, bumpy, golden brown, pale, burnt)		



Let the pastry cool down before assembling it with the cream and coating w Once the pastry is cooled, place it on a tray or board and assemble in order pastry – icing. How did you find the experience? Was it easy to spread the cream on ii) Is the pastry stable, e.g. does it fall over to one side after assembling with Can you think of other methods of preventing the cake from rising that ii)

6.

evaluate this challenge, noting down anything you learnt from change next time.



Baked Alaska

TEACHER'S GUIDANCE

WHAT'S COVERED IN THIS SEED OF

- 🗸 protein denaturation wh 🧷 ma、i 3 a meringue
- ✓ creaming and aല ് ് സ്ഥാന making a sponge cake
- ✓ dealigney h :>-.sk food products (eggs, ice cream)
- ✓ timin pare for the NEA exams

LEAL

Students sho

- control t tempera results
- □ plan and preparat

SAFETY TIPS

- ! Make sure that students allergic to any food ingredient do not a challenge (encourage them to measure times and write notes, used in this session include milk and wheat and eggs.
- ! Remind students about the safety rules when handling high-risk they apply them to prevent cross-contamination of foods.
- ! Ensure that students follow safety rules when handling hot food

GUIDANCE FOR DELIVERY

We advise you to the the like Cream challenge prior to this one, so that cream

The like the like Cream challenge prior to this one, so that the like the like Cream challenge prior to this one, so that the like the like Cream challenge prior to this one, so that the like the like the like Cream challenge prior to this one, so that the like th

WHAT YOU WILL NEED:

	Equipment:		l
\checkmark	large bowls to prepare chocolate sponge base	✓	eggs
✓	large bowls to prepare meringues – allow glass,	✓	caster sugar
	plastic and metal bowls for students to choose	\checkmark	vanilla pod (or va
	from	\checkmark	butter
✓	whisks, mixers or food processors	\checkmark	self-raising flour
✓	round metal baking tins	✓	cocoa powder
✓	blowtorch (in case someone feels adventurous)	✓	ice creams (boug
✓	fine sieves		separate challeng
✓	kitchen scale		
✓	oven		
✓	timer (ideally one for each and structure)		
	use the timers in th j ്രൂ ് പുഗന്ട്ട)		





ACTIVITY ANSWERS

- Turning the temperature up might result in the surface of the cake cooking before to cake starts rising, the top will crack.
- 3. Usually sieving the flour once is enough. Not sieving it at all can cause lumps to for
- 5. It is best to let the cake cool in the tin the proce and the gentle, and the cake
- 6. It is best to use a glass or metal whisking the egg white:
- 7. Additic Constraint constraints and protein, causing the eggs to whisk soc
- 8. It might be best to add sugar a spoonful at a time, but this depends whether you're us
- 9. The cake must be assembled pretty quickly to prevent the ice cream from melting a
- 10. Although the recipe includes baking the cake, some may choose to blowtorch it to

QUESTIONS TO THINK ABOUT ANSWERS

- 1. Baking to make the cake
 - Boiling and simmering to make the ice cream
 - Baking to bake the assembled cake
- 2. The eggs are rich in protein
 - When eggs are whisked, the protein in them and sile and stretches out (denature
 - During whisking, the air bubbles ar trapped between the fibres of proteins.
 - These processes cause the മാര്യം മാന്നല് fluffy, and light in colour
- 3. The distance of the control of th
 - Ve panho do not eat eggs/milk
 - Lac egetarians who do not eat eggs
 - Ovo-vegetarians who do not eat milk.
 - Individuals who are allergic to egg protein or milk

- Lactose-intolerant people
- Individuals who are allergic to wheat
- Gluten-intolerant people (coeliacs)
- 4. Enriched cage production is the most cost-efficient method of egg production small cages at all times. These eggs are labelled with number 3.
 - In barn production, hens are allowed to roam freely inside the barn. They are
 are often fed artificial/enhanced/fortified feed to improve the quality of the e
 number 2.
 - Free range eggs guarantee that the hens are kept in how a conditions (animal have access to natural sunlight and are allow number 1.
 - In organic production, the same of the free range production have to be free organic feed, or the given any artificial substances (e.g. GM feed of labelled with the position).

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Baked Alaska

For the sponge:

THE CHALLENGE OVERVIEW

Chocolate cake base topped with ice crear (f). Covered in meringue and baked. But won't the is a cream melt, I hear you call? And how does the inerrapped not burn? Well, the challenge is over to your analysis.



Not a



Your challenge is to make this tricky dessert. Timing will be ke challenge?

INGREDIENTS

Makes 12 servings

Ice cream (bought or made from scratch – see separate challenge)

Meringue:

- 3 free range egg whites
- 175g caster sugar
- 1 vanilla pod

Chocol

- 125 Jan 1
- 125g caster sugar
- 2 medium free range eggs
- 115g self-raising flour
- □ 10g cocoa powder

PROCEDUI

1	Preheat the oven to 180°C					
2	In a food processor, cream					
	until pale and fluffy					
3	Beat the eggs in					
4	e the flour and coco					
1	ar the mixture into a gre					
1 6	Bake for 30 minutes until a					
ľ	comes out clean					
7	Cool down on a wire rack					
For	the meringue:					
8	In a clean bowl, whisk the ϵ					
١,	Whisk in the sugar and van					
9	from the vanilla pod					
Asse	emble the cake:					
10	Preheat the oven to 200°C					
11	Place scoops of ice cream of					
	pyramid shape, leaving a 1.					
12	Spoon the whisked egg wh					
	making sure there are no g					
13	Use a spoon or a skewer to					
13	patterns on the meringue					
11	Bakr '. Alaska for 10 minu					

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Zig Zag Education

QUESTIONS TO THINK APCLA

Discuss these questic said a partner or write notes in your books.

- 1. What hads are being used when preparing the different parts of
- 2. Explain entific principles being applied to the eggs when whisking the
- 3. Who may this dish be unsuitable for? (Section B: 6, Section A: 1)
- 4. Describe the different types of egg production. (Section A: 11)

Baked Alaska - Time is of the esse

Your Task

Time is of the essence in this one... You should go to teams of three compete against others in the class on the best baked Alaska However, you will need to mobile the best baked Alaska you could end up in go bother. Do you sacrifice quality to be long it takes on the way. It is and your teacher will mark you for quality

Your Choice: Justify your choice.	The same temperatur	е 🗖		Turn it u
				•••••
Make sure you recor	rd the outcome of this lat	er when t	he cake is	done.
It's time to make the	e sponge. Cream the butt	; n (ugar, and	then beat tl
- •	It's ir we'ttar y on aeration Markey your flour?	n and the	more tim	es it's sieve
Your C 29	t at all (straight out of the	e pack)		Once
How has your choice	made your folding of the	mixture e	asier/har	der? Would
		•••••	•••••	
Pour the cake into a	round baking tin and bak	e.	•••••	
Cake is cooked get	t it out of there. Do you v	wait for it	to cool in	the tin or r
Your Choice:	Got it straight out of t	he tin		Let
Is it in one piece? Ex	valuate your choice. Wou	ld vçir	a. ge you	r decision n
On to the meringue	. What bowl? ′ாட் நbe	τween gla	ass, metal	and plastic
Your Choice: G		Metal		
How c 19 is 10 kg	e impact on the quality o	f your me	eringue?	

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Some say to add a pinch of salt when whisking your eggs as it may shorten to the texture of meringue. It's not mandatory, but will you try this? Your Choice: Pinch of salt added Pinch of salt not What effect does this have? Can you name the process it speeds up? Add your sugar. But the first y? Decide how you will add your sugar: pour Your Cl Would you change this decision next time? **Time to assemble!** This is it, time to put all the components together. Do y neat or do you get it together quickly? Your Choice: Quickly \Box Take my time (neatly Right or wrong choice? Evaluate your decision. 10. Bake that Alaska! Bake in the oven and vt. And for how long? A nice will your ice cream come out Evaluate vour tir its, fr Laking... Your time for completion: Your score for your dess COPYRIGHT Take the time to evaluate this challenge, noting down anything you learnt from **PROTECTED** change next time.

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Food Challenges for OCR Food Preparation: Tricky Desserts