



# **Starters and Plenaries for KS3 Cooking and Nutrition**

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## Teacher's Introduction

This pack of *Starters and Plenaries* is designed to help you deliver the content of National Curriculum Design and Technology Programmes of Study – Cooking and Nutrition Key Stage 3

The starter worksheets aim to either introduce new ideas and topics or trigger creative thinking. The plenary worksheets are to summarise the basic concept of the lesson and help to take the main message home.

A range of activities has been written into this resource which incorporates independent and group work, and which will be engaging for the students. The varied nature of the activities provides a range of learning styles to be developed, including visual, verbal, auditory and kinesthetic.

A Content Table has been provided to identify the main topics each activity covers. Some activities are considered starters and which plenaries. However, the identification of an activity as a starter or plenary is only a suggestion and you might find that some of the activities are intended for use as both.

Each worksheet should take a maximum of 10 to 15 minutes, which makes it easy to use in the classroom.



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## Content Table and Instructions

This table will enable you to pick and choose starters or plenaries relevant to the topic you are teaching. If you are using a starter or a plenary, you should be aware that many starter and plenary tasks may be interchangeable and may not work so well as a starter or plenary. It is at the teacher's discretion when and how to use each task.

Activity number	Activity title	Topic
<b>Diet, nutrition and health</b>		
1.	Functional Match-up	Functions of macronutrients
2.	Diamond Energy	Sources of energy
3.	Energy Post-it Notes	Energy needs
4.	Calorie Counter	Energy in food
5.	Test the Waters Rebus	The meaning of water for health: functions of water
6.	Dehydration Diary	The meaning of water for health: effects of dehydration
7.	Meal Designer	The Eatwell Guide
8.	Source of nutrients	Sources of nutrients in a diet
9.	Test your knowledge	The eight tips for healthy eating
10.	The Unbalanced Crossword	Malnutrition and obesity
11.	Social Media Page	Physical activity and its meaning for health
<b>Where food comes from</b>		
12.	Piece-ful Food	Where food comes from
13.	Around the World in 26 Letters	Origin of food
14.	It's a Season for Noughts and Crosses	Seasonal food
15.	True or False	Methods of farming
16.	Environmental Connection Map	Food and the environment
17.	Things on a Food Factory	Food additives
18.	Taste Diagrams	British cuisine

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## Factors which influence food choice

19.	Food Choices Quiz Cube	Factors which influence food choice
20.	Cheaping in	Calculating the cost of a dish
21.	Crash Course	Vegetarian and vegan diets
22.	True Colours of Vegetarianism	Vegetarian and vegan diets
23.	(Un)healthy Choices	Adjusting and modifying recipes to meet different dietary needs
24.	Uncle Sage Advice	Adjusting and modifying recipes to meet different dietary needs
25.	Hot Potato	Food allergies
26.	(Not So Secret) Fact Files	Food intolerance
27.	How Much Do You Know?	Interpreting food labels – logos and signs
28.	Questionable Label	Analysing and interpreting food labels

## Cooking and food preparation

29.	Touch the Food Game	Kitchen equipment
30.	Hot Seat	Food safety
31.	Handy Hygiene	Health and safety practices
32.	Hot Seat	Storage conditions
33.	Ready, Steady, Draw!	Food preparation
34.	Master of Creation	Cooking of food
35.	Career Paths Rebus	Jobs in the food industry

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# Activity 1 – Functions of Macronutrients – F

## Teacher's Notes

Starter activity Match-up	
<b>Aim of the activity</b>	To introduce the various functions of macronutrients in the human body.
<b>Teacher's instructions</b>	Copy the teacher's worksheet to allow one per person. Allow students 10 minutes to complete the activity.

## Answers

### Proteins:

- Build and repair cells
- Build important hormones
- Improve digestion by working as enzymes (biological catalysts) to break down food
- Act as an emergency (secondary) source of energy (after fats and carbohydrates)
- Help build antibodies to improve immunity

### Fats:

- (Primary) source of energy
- Help provide insulation to protect us from cold
- Help dissolve vitamins
- Help build important hormones
- Help protect vital organs

### Carbohydrates:

- (Primary) source of energy
- Build the DNA (genetic material) in cells
- Build important hormones

Protein sparer means that carbohydrates/fats are used as a primary source of energy. Proteins can be used for other functions (not providing energy), like repairing and building.

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# Functional Match-up

Food is made of proteins, fats and carbohydrates. These chemicals are known as macromolecules. We provide them in large amounts with diet. Proteins, fats and carbohydrates give food texture and taste of the food, but they also play important roles in the human body. Can you tell you know about them!

Match up the macromolecules below with the functions they play in the human body. Write the letter of the function in the box next to the macromolecule. Check with a classmate to see if they are correct!



## PROTEINS

## FATS

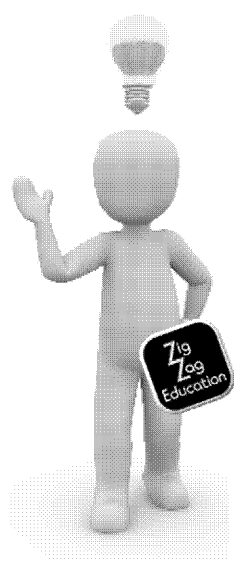
## CARBOHYDRATES



Source of energy
Help provide insulation
Help digest food
Help build up muscles
Help build the DNA
Help build iron
Improve digestion by acting as enzymes (biological catalysts) to break down food
Act as an emergency store of energy
Help build antibodies
Helps protect the body from disease

## Bonus question:

Carbohydrates are often called 'protein spacers'. What do you think this means?



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## Activity 2 – Sources of Energy – Diet

### Teacher's Notes

Starter activity: Diamonding	
<b>Aim of the activity</b>	To introduce foods which provide different amounts of energy
<b>Teacher instructions</b>	<p>Split students into pairs. Copy the labels on the next page and place them on a diamond shape.</p> <p>In each pair, students should cut out the labels and then try to place them on the diamond shape. Foods which provide the least calories should be placed at the bottom and the foods which provide the most calories should be placed on top of the diamond.</p> <p>The pair which is the closest to the answers, wins.</p> <p>Continue the lesson to discuss the importance of calories for energy and calories in a diet.</p>

### Answers

Peanut butter	60 kcal / 100g
Chocolate (milk)	519 kcal / 100g
Cheddar cheese	416 kcal / 100g
Cornflakes (plain)	376 kcal / 100g
Scones (plain)	352 kcal / 100g
Bread (white, average)	236 kcal / 100g
Salmon (grilled)	210 kcal / 100g
Ice cream (vanilla)	169 kcal / 100g
Rice (boiled)	145 kcal / 100g
Cod (grilled)	98 kcal / 100g
Bananas (raw)	81 kcal / 100g
Potatoes (boiled)	74 kcal / 100g
Milk (whole)	63 kcal / 100g
Apples	51 kcal / 100g
Orange juice	33 kcal / 100g
Lettuce	11 kcal / 100g

Source: <http://www.foodrefood.foodafactoflife.org.uk/>

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# Labels



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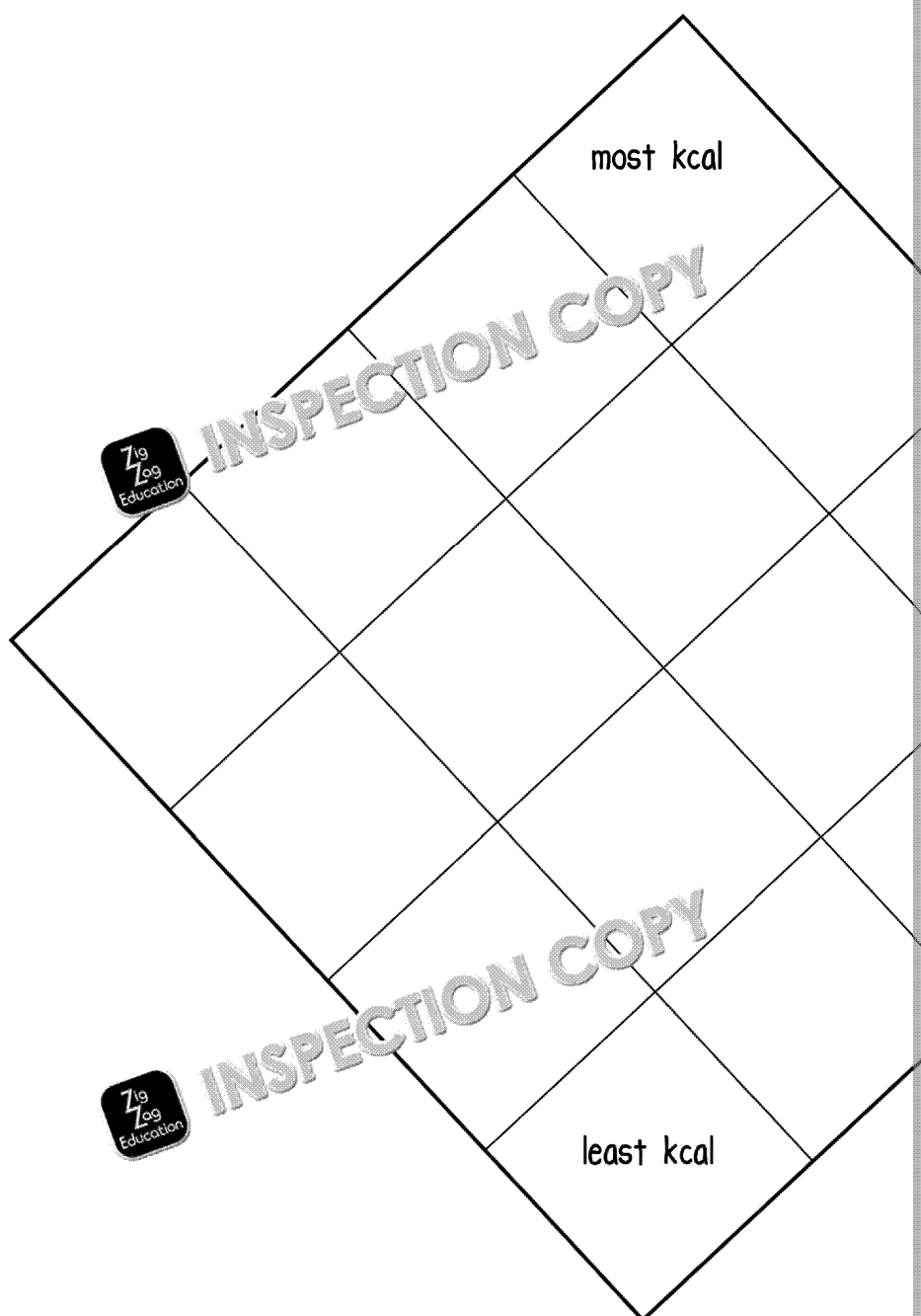


# Diamond Energy

The food we eat provides us with energy, which is necessary to carry out all our body functions and activities – from breathing and maintaining a stable body temperature to dressing up, showering, hoovering and cycling.

Energy is measured in kilocalories [kcal] or kilojoules [kJ]. 1 kcal equals 4.2 kJ. Fats, proteins and carbohydrates – the three macronutrients. The food energy value of different foods varies. If a food has a high energy value in a small amount, we call it energy-dense. Can you tell which foods are energy-dense?

Get into groups of four. Your teacher will provide you with a set of labels. Your task is to arrange them in the diamond below so that those which provide the least energy (in 100 g) are at the bottom, and those which provide the most energy (in 100 g) are at the top of the diamond.



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## Activity 3 – Energy Needs – Energy P

### Teacher's Notes

Starter activity Post-it notes	
<b>Aim of the activity</b>	To introduce the idea of energy needs and various factors that affect them.
<b>Teacher instructions</b>	Prepare the Post-it notes in two colours (e.g. yellow and orange). Give each pupil a couple of Post-it cards in different colours and ask them to write down factors that increase energy needs on yellow cards, and those that decrease energy needs on orange cards. Then ask them to stick the Post-it notes on the board to show how various factors affect the energy needs of individuals.

### Answers

Factors increasing energy needs	Factors decreasing energy needs
Male sex	Female sex
Body composition: more muscles	Body composition: more fat
Life stage: growth spurt (childhood, adolescence)	Life stage: adulthood, old age
Pregnancy (last trimester) and lactation	-
Body weight and height (the larger the person, the higher the needs)	Body weight and height (the smaller the person, the lower the needs)
Genetics: fast metabolism	Genetics: slow metabolism
Occupation: physical work/job	Occupation: sitting/non-physical work
Lifestyle: high physical activity	Lifestyle: sedentary
Health state: certain forms of cancer, cystic fibrosis, extensive burns and scalds	Health state: obesity, overeating

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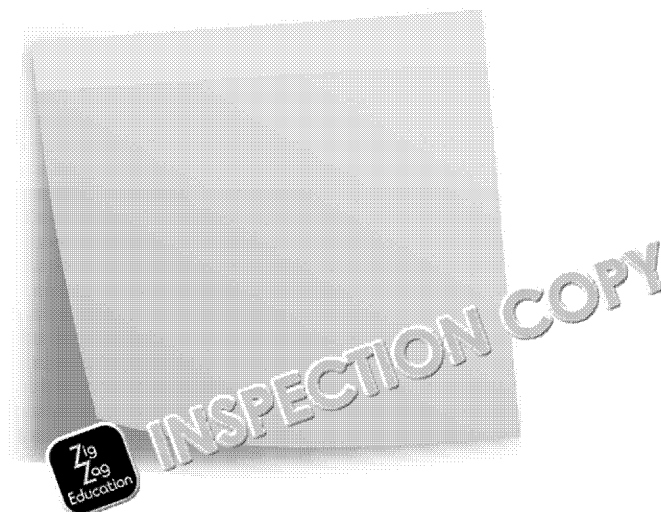


# Energy Post-it Notes

We all need a lot of energy to live. It is used to keep us warm, to make the heart pump blood and make the guts pass food through. It is needed by our brain, muscles and all the other organs. Each person needs a different amount of energy – that's how it's so difficult to find a diet that would fulfil the requirements of all people in the world! Do you know what factors affect energy needs?

Grab some Post-it notes in different colours. On one colour (e.g. yellow) write down factors which increase energy needs (cause people to need more calories). On another colour write down factors which decrease energy needs (cause people to need less calories). Stick the Post-its on the whiteboard or wall in the class and see what others came up with.

## Factors increasing energy needs



We speak about **energy balance** if a person's diet provides as many calories as a person consumes. If a person consumes too much, there is surplus energy, which is stored in the body tissue, causing **weight gain**. If a person eats too little, the body uses the stored energy, causing **weight loss**.

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## Activity 4 – Energy in Food – Calorie

### Teacher's Notes

Starter activity: Calculating the energy value	
<b>Aim of the activity</b>	To calculate the energy value of different foods, measure and weigh ingredients.
<b>Teacher instructions</b>	Split the class into pairs. Copy the student's worksheet according to the number of groups. Give each group a kitchen scale, measuring jug and food ingredients. Allow students 10 minutes to plan their snack, and another 10 minutes to cook it. Students may use this activity as practice and then redo it using real ingredients.

### Answers

Ensure that the students know how to calculate the energy value of food.

Ensure that students weigh and measure their ingredients correctly.

Lower-ability students may benefit from using a database or food table.

<http://explorefood.foodafactoflife.org.uk/>

<https://www.nhs.uk/Tools/Pages/Calorie-checker.aspx>

<https://www.verywellfit.com/recipe-nutrition-calculator-4157076>

<https://www.myfitnesspal.com/recipe-calculator>

<http://nutritiondata.self.com/fnd/myrecipes/welcome?returnto=/myrecipes>



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# Calorie Counter

Food is a source of energy, which is necessary to carry out all life activities. How much energy actually IS in food? Today you're going to find out!

Get into pairs. Using the data below, plan a snack which will provide 100 kcal. What can you use and in what amounts? Once you've decided, weigh and measure what 100 kcal really looks like!

## Tip: how to count how many calories are in food?

Most data and food tables give information on how many calories are in 100g of food. But what if there is less or more than 100 grams?!

To calculate this, use the equation below:

$$\text{energy in a portion of food (in grams)} = \frac{\text{portion size (in grams)} \times \text{number of kcal per 100 g}}{100 \text{ g}}$$

For example, if 100 g of white bread provides 219 kcal, then 35 g (standard slice of bread) =

$$\text{slice of bread} = \frac{35 \text{ grams} \times 219 \text{ kcal}}{100 \text{ grams}} = 76.65 \text{ kcal}$$

Food	kcal (per 100 g)	Food	kcal (per 100 g)	
white bread	219	ham	107	vegetables
cream crackers	445	Cheddar	416	cheese
naan bread	285	cottage cheese	103	milk
malted bread	238	tomato	14	fruit
scones	346	lettuce	11	
pitta bread	255	avocado	190	
rice cakes	358	pepper	21	
Other:		Other:		
Other:		Other:		

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My calculations:



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## Activity 5 – The Importance of Water for Health

### Water – Test the Waters Rebus

#### Teacher's Notes

Teacher activity: Rebus	
<b>Aim of the activity</b>	To introduce the importance of water for health.
<b>Teacher instructions</b>	Copy the student's worksheet to allow one per person. Allow students 5 minutes to complete the activity, and then check answers. If students are not managed to guess all of the puzzles. Then allow them 5 to 10 minutes for the second part of the activity.

#### Answers

- 1. Stable temperature**  
[Stable + Temple (minus the L) + Hat (where H equals R) + ure]
- 2. Removing toxins**  
[Lemon (where L equals R and N equals V) + King (minus the K) + TO + Pins]
- 3. Aiding digestion**  
[Rain (minus the R and the N) + Ring (where R equals D) + Dice (where C equals T)]

#### Other functions of water could include

- dissolving ingredients in food
- making swallowing easier
- making electric juices
- transporting nutrients around the body
- taking part in chemical reactions

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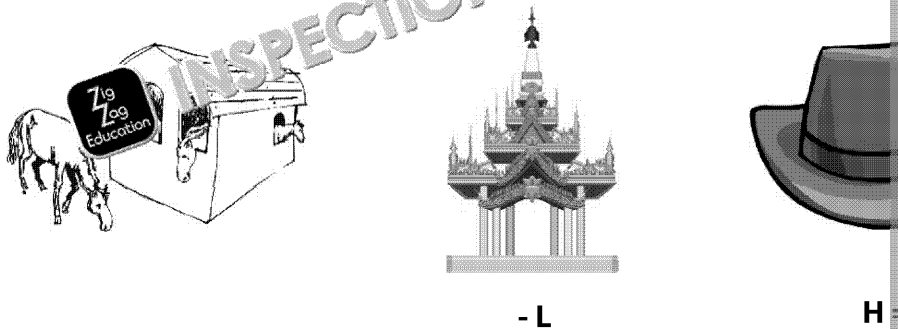


# Test the Waters Rebus

There is no life without water. It is needed in the human body for a number of functions – but what are they?

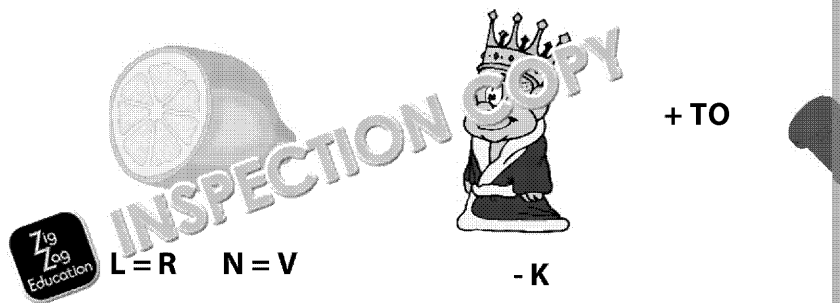
Solve these rebus puzzles to find out!

1.



Answer: .....

2.



Answer: .....

3.



Answer: .....

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Can you think of any other function of water in the body? Draw your own  
classmate to complete!



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Answer: ...



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## Activity 6 - The Importance of Water for Health

### Dehydration - Dehydration Diary

#### Teacher's Notes

Activity activity: Dear diary	
<b>Aim of the activity</b>	To support knowledge about the importance of water and hydration.
<b>Teacher instructions</b>	Copy the student's worksheet accordingly to allow one per person. Allow students 10 minutes to write a short diary note on the worksheet. Check the answers and analyse them to discuss in the next lesson.

#### Answers

The answers should refer to various symptoms of dehydration, from mild to more severe.

Answers could include:

##### Mild symptoms:

- increased thirst
- dry mouth
- lack of saliva
- decreased urination
- dark urine
- dark patches under the eyes

##### Moderate symptoms:

- constipation
- dry, wrinkled skin
- sunken eyes
- muscle cramps
- low blood pressure

##### Severe symptoms:

- feeling very tired
- dizziness when standing
- weak and rapid pulse
- seizures
- heat stroke
- loss of consciousness

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# Dehydration Diary

No living organism can survive without water – be it a bacterium, a flower. Water is crucial for a number of life processes – it helps to maintain a stable temperature, remove toxins from the body, enable digestion by dissolving nutrients for chemical reactions within cells, and many others. A healthy adult person should drink 2 litres of water a day, as drinking too little can cause dehydration.

Last week you went for a trip to Africa. Naturally, there was no water in the tap, so you were drinking too little. Write a diary entry to describe how you felt and what you noticed during your trip.


Dear diary,

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## Activity 7 – The Eatwell Guide – Meal


### Teacher's Notes

Starter activity – Designing a meal	
<b>Aim of the activity</b>	To summarise information about the Eatwell Guide and how to plan a healthy balanced diet.
 <b>Teacher instructions</b>	<p>Split the class into pairs. Copy the student's worksheet according to the number of students. Give students 10 minutes to complete the activity.</p> <p>As an extension, you may then ask them to actually cook the meal and calculate the calories it provides using an online calculator such as <a href="http://explorefood.foodafactoflife.org.uk/">http://explorefood.foodafactoflife.org.uk/</a>. Remember to record the results so students can complete the additional activity.</p>

### Answers

A complete meal should include:

- a source of starch – e.g. rice, pasta, potatoes, bread
- vegetables – cooked or fresh, e.g. in the form of a salad or soup
- a source of protein – e.g. meat, fish, eggs, beans, lentils, chickpeas
- milk or dairy – e.g. milk, milkshake or yoghurt to drink or cheese as a side
- fruits – e.g. a fresh fruit served instead of a dessert, or a fruit smoothie
- fats and oils – either from other foods (e.g. cheese, meat) or added (e.g. for frying)
- a drink – ideally unsweetened, e.g. water, fruit or herbal tea, or milk

 You can copy the Eatwell Guide attached on the next page for students who haven't heard about it, to support them in completing the activity, or to use for their results.

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Check the label on packaged foods

Each serving (150g) contains

Energy	Fat	Saturated fat	Sugars
1046kJ 250kcal	3.0g	1.7g	19g
25%	6%	34%	38%

Typical adult's reference intake  
sold per 100g: 697kJ/ 167kcal

Choose foods lower in fat, salt and sugars

## Eatwell Guide

Eat at least 5 portions of a variety of fruit and vegetables every day

Fruit and vegetables

Frozen peas

Chopped tomatoes

Raisins

Potatoes

Whole grain cereal

Porridge

Low fat soft cheese

Semi skimmed milk

Dairy

Chocolate

Per

Beans and pulses, 2 portions of sustainably sourced fish per week, one of which is oily. Eat less processed meat

Beans

fish, eggs, meat

and other proteins

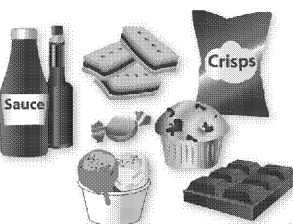
Lean mince

Lean mince

Lean mince

Lean mince

Lean mince



Eat less often and in small amounts

source: Public Health Wales, Food Standards Scotland and the Food Standards Agency in Northern Ireland

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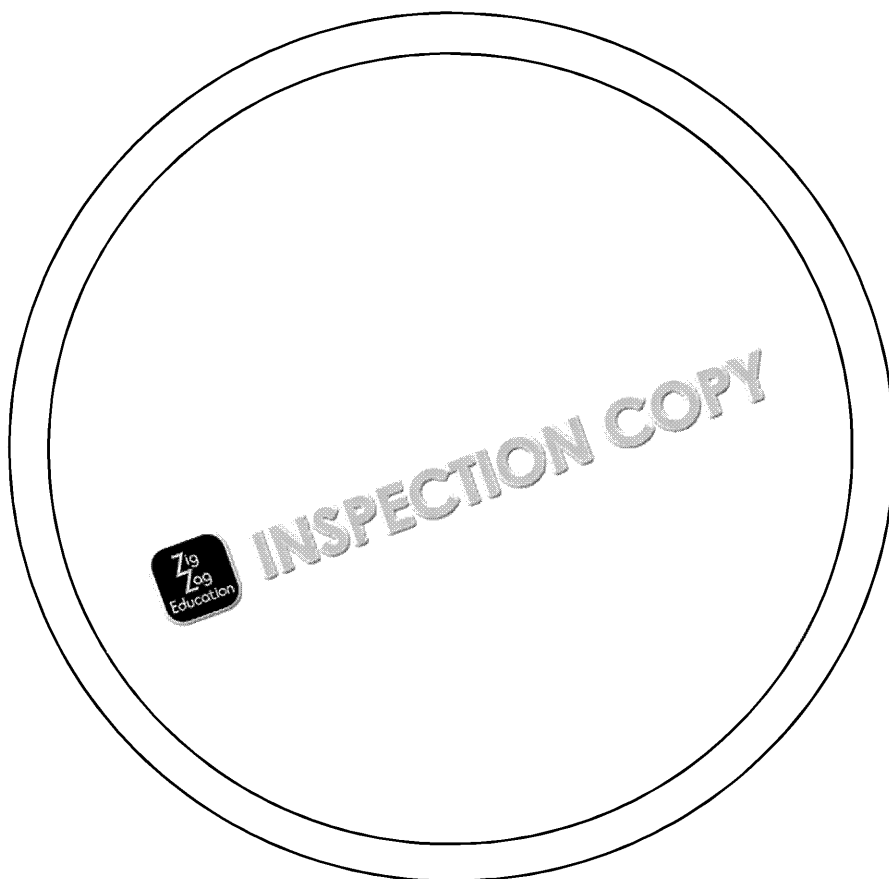


# Meal Designer

The Eatwell Guide is a simple guide which shows what foods to eat and in what quantities in order to eat a healthy, balanced diet. A balanced diet is one with the right amounts of macronutrients and micronutrients in the correct amounts necessary to keep you healthy. Following the Eatwell Guide, we should base our diets on vegetables and fruits, and also include some milk and dairy, some sources of protein (like meat, fish or eggs), and oils. We also need to drink a sufficient amount of water. Ouff, that's a lot to remember!

Get into pairs. In each pair, plan and draw a complete meal which follows the Eatwell Guide.

main meal



Tick ✓ all the items you included in your meal.

- |  |  |
|--|--|
| <input type="checkbox"/> vegetables        | <input type="checkbox"/> milk or dairy |
| <input type="checkbox"/> fruits            | <input type="checkbox"/> fats and oils |
| <input type="checkbox"/> starchy foods     | <input type="checkbox"/> drink         |
| <input type="checkbox"/> protein-rich food |  |

Is anything missing? How can you improve your meal?

.....

.....

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## Activity 8 – The Eatwell Guide – So(u)rce

### Teacher's Notes

Plenary activity: Categorising	
<b>Aim of the activity</b>	To recap knowledge of food sources of various macronutrients
<b>Teacher instructions</b>	Split the class into groups of four. Copy the student's worksheet. Give students 10 to 15 minutes to cut out the labels and categorise them. To save time, ask students to simply write the sources above each label and then cut them out.

### Answers

**Proteins:** almonds, beef steak, chicken breast, cod fillet, milk, salmon, shrimps, etc.

**Carbohydrates:** bananas, bread, carrots, chips, flour, milk, pancakes, potatoes, rice, etc.

**Fats:** almonds, avocados, butter, chips, lard, mayonnaise, milk, olive oil, salmon, etc.

Note that some foods are a source of multiple nutrients (e.g. milk) and could be placed in more than one category. You can use this opportunity to discuss why we need a varied diet (to provide a range of nutrients in the right amounts).

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# So(u)rcerer's Food

Food – everyone has their favourite! But did you know that it is not only tasty but also healthy? Yes, that's right! Food provides us with important macronutrients, without which we would quickly die!

Macronutrients include proteins, fats and carbohydrates and are needed in large amounts. We can find them in a variety of foods. But do you know which?

Cut out the labels below and attach them above the correct category ('source' or 'nutrient') of the food.

avocados	cod fillet	pancakes	mayonnaise
almonds	bread	shrimps	salmon
carrots	beef steak	walnuts	lard
tofu	butter	yoghurt	flour
potatoes	tortilla	chips	bananas

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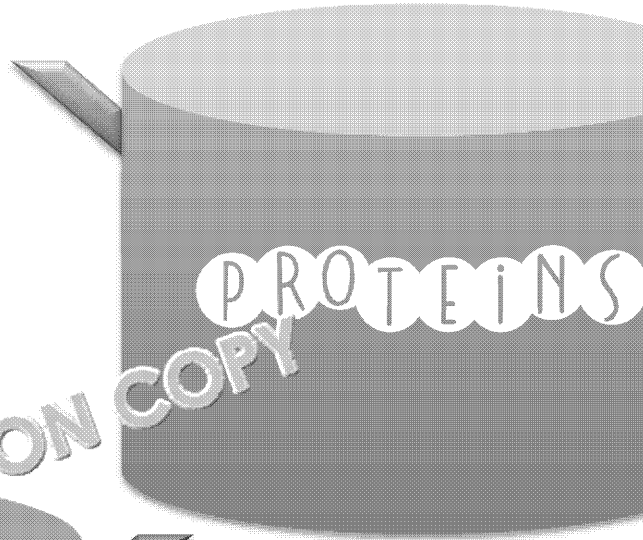
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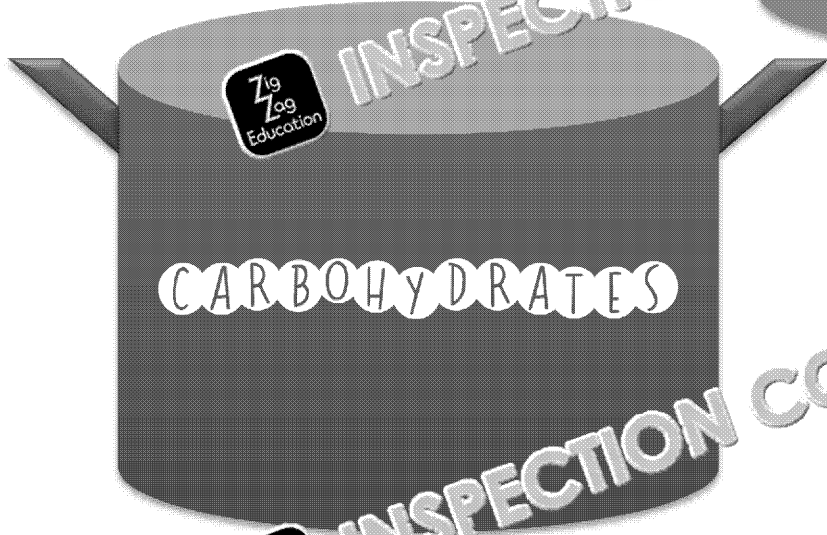
Stick your sources in the correct pans!



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# Activity 9 – The Eight Tips for Healthy Eating Knowledge

## Teacher's Notes

Planning Activity: Multiple choice quiz	
<b>Aim of the activity</b>	To summarise knowledge about the eight tips for healthy eating
<b>Teacher instructions</b>	Split the class into pairs. Copy the student's worksheet according to the number of pairs. Allow students 10 minutes to complete the quiz. Once done, collect the answers into a box. Analyse them and discuss the most problematic areas.

## Answers

1. Starchy foods
2. Sweet potato
3. Five
4. Because it can cause tooth decay
5. Cod
6. Bacon
7. It can cause heart disease and stroke
8. Yoghurt
9. To reduce the risk of high blood pressure
10. 60 minutes every day
11. Dehydration
12. It improves concentration.

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# Test Your Knowledge

Doctors, dietitians and nutritionists put a lot of effort into creating guidelines for healthy eating and cooking. One of them is known as the eight tips for how much you know about it!

Get into pairs and try to solve the quiz below by thinking ✓ the correct answer.

1. **The first tip states that you should base your diet on...**

- ☐ starchy foods
- ☐ protein-rich foods
- ☐ foods rich in fats

2. **Speaking of starchy foods – identify one example of a starchy food.**

- ☐ carrot
- ☐ lettuce
- ☐ sweet potato

3. **How many portions of fruits and vegetables should you eat each day?**

- ☐ Three
- ☐ Four
- ☐ Five

4. **Why is drinking fruit juice not recommended by the guide?**

- ☐ because it can cause tooth decay
- ☐ because it can cause scurvy
- ☐ because it can cause weight loss

5. **The guide states that you should eat two portions of oily fish a week. Which is not an example of an oily fish?**

- ☐ mackerel
- ☐ salmon
- ☐ cod

6. **It is also important to cut down on saturated fats. Which of these is rich in saturated fats?**

- ☐ avocado
- ☐ butter
- ☐ salmon

7. **Why is saturated fat unhealthy?**

- ☐ It can cause heart disease
- ☐ It can cause obesity
- ☐ It can cause diabetes

8. **Select the food with the highest fat content.**

- ☐ Cheddar cheese
- ☐ roasted ham
- ☐ yoghurt

9. **Why is it important to limit salt intake?**

- ☐ to reduce blood pressure
- ☐ to reduce cholesterol
- ☐ to reduce weight

10. **How often should you exercise to stay healthy and maintain a healthy weight?**

- ☐ 60 minutes, 3 times a week
- ☐ 60 minutes, 5 times a week
- ☐ 60 minutes, 7 times a week

11. **What condition is caused by drinking too little water?**

- ☐ dehydration
- ☐ overhydration
- ☐ rehydration

12. **Eating a balanced diet is important because...**

- ☐ It improves your health
- ☐ It improves your mood
- ☐ It stimulates your appetite

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<p><b>Activity activity: Crossword</b></p>	
<p><b>Aim of the activity</b></p>	<p>To recap and reinforce knowledge about the most important effects of exercise.</p>
<p><b>Teacher instructions</b></p>	<p>Split the class into pairs. Copy the student's worksheet according to the number of pairs. Allow students 10 minutes to complete the activity. Take answers and explain possible issues.</p>

				1A					2B					
				N					L	3				
				A					I	I				
4D	I	G	E	S	T	I	O	N					5S	C
				M					D	K				
				I					N	E				
				A					6G					
								7O	B	E	S	I	T	
								I					S	
								T						
								R						
				8F	I	B	R	E						

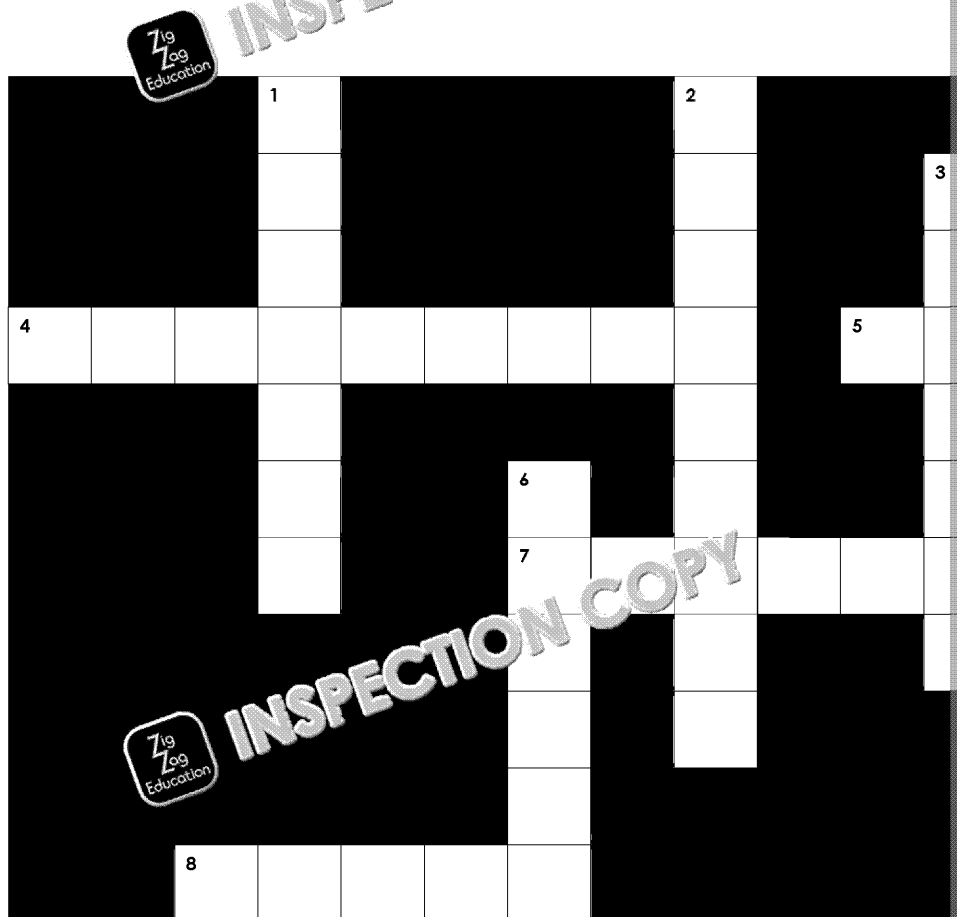
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# The Unbalanced Crossword

You already know that eating a balanced diet helps to keep you healthy and gives you energy. But what happens when your diet is NOT balanced? Both deficiency (eating too little) and excess (eating too much) of nutrients can cause more or less severe health problems. What are they?

Get into pairs and try to solve this crossword. You will need to check how much you already know about eating an unbalanced diet.



## Across

4. The process of breaking down nutrients in the body.
5. In this disease, common among sixteenth century sailors, the gums bleed and recede, causing tooth loss.
7. This condition is usually caused by consuming too much food.
8. Cannot be broken down in the body, but is necessary for good health and bowel movements.

## Down

1. Disease caused by a lack of vitamin C, there are very few fruits and vegetables that contain it.
2. Night blindness is a symptom of vitamin A deficiency.
3. In this condition, the bones become weak and bend outward, often due to a lack of vitamin D, which is found in fish oils.
6. This disease is caused by a lack of iron in a diet.

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# Activity 11 – Physical Activity and Its Meaning

## Social Media Page

### Teacher's Notes

Plenary activity – Social media page	
<b>Aim of the activity</b>	To recap knowledge about physical activity and its meaning for weight.
<b>Teacher's instructions</b>	Split the class into groups of four. Copy the student's worksheet and give students 10 minutes to create a simple social media page that affects health and helps to maintain a healthy body weight.

### Answers

Students' social network pages could include the following health benefits of physical activity:

- helping to lose weight
- burning excess calories
- preventing overweight and obesity
- preventing cardiovascular diseases
- improving heart rate
- lowering the risk of hypertension (high blood pressure)
- improving glycaemia (the level of glucose in the blood)
- improving lung capacity and breathing rate
- lowering stress
- strengthening the bones
- lowering the risk of osteoporosis
- improving body composition (increasing the amount of muscle and lowering body fat)
- improving blood cholesterol levels (more 'good cholesterol' HDL, less total cholesterol LDL)
- increasing immunity
- improving mood and self esteem
- slowing down ageing
- increasing metabolism

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# Social Media Page

Physical activity is very important for health. It helps to control body weight, burns up excess calories, strengthens muscles and bones, improves performance. You can see more and more people jogging in the morning or attending gym, but some are still reluctant!



#SPORT

#HEALTH



Get into groups of four. In groups, create a social media post that physical activity equals health! What will you say? How will you present your information? A simple infographic? Or maybe something else? It's time to get creative and #GetActive!

**MYSOCIOFACE**

 <p>(choose a photo)</p>	<p>Type your status</p> <p>Older posts</p>
About:	
Reviews:	
Likes:	
<p>Link to website:</p> 	

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# Activity 12 - Where Food Comes from -

## Teacher's Notes

Starter activity: In pieces	
<b>Aim of the activity</b>	To introduce foods which are grown, reared, caught and gathered
<b>Teacher's instructions</b>	<p>Split the class into groups of four. Copy the student's worksheet.</p> <p>Allow students 10 to 15 minutes to complete the activity and then manage to find and correctly categorise all of the ingredients.</p> <p>To save time, you can ask students to simply cross off the tiles rather than cut them out.</p>

## Answers

- **Grown:** apples, potatoes, beans, rice, carrot, pears  
*Grown foods include all plant foods cultivated purposefully in fields, orchards, greenhouses etc.*
- **Reared:** cattle, sheep, chicken, pork, turkey  
*Reared foods include all livestock (cattle, poultry, fish, etc.) which are reared on farms.*
- **Caught:** salmon\*, game, venison\*, partridge, lobster  
*Caught foods include all foods which come from animals living in the wild (aren't reared).*
- **Gathered:** mushrooms\*\*, herbs\*\*  
*Gathered foods include plant foods which grow in the wild (are not cultivated purposefully).*

\*can also be reared

\*\*can also be grown

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# Piece-ful Food

The foods we eat can be grown, reared, caught or even gathered. Let's see how much you know about where food comes from!

Get into groups of four. Cut out the labels below and use them to create a word. Then decide whether these foods are grown, reared, caught or gathered.

SAL	IN	CAR	CHI	MUS
LOB	SHE	GA	ER	HER
VE	PE	POT	MON	ARS
KEY	HRO	PO	ST	NI
CAT	BE	BS	SON	ROT
EN	PAR	APP	CE	DGE

**Foods which are:**

grown:

.....

.....

reared:

.....

.....

caught:

.....

.....

gathered:

.....

.....

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# Activity 13 – Foods from around the World in 26 Letters

## Teacher's Notes

Plenary activity: The Alphabet game	
<b>Aim of the activity</b>	To recognise foods coming from different parts of the world
<b>Teacher instructions</b>	<p>Get pupils stand in a circle. Pick a student to begin the game.</p> <p>The first student must say a food beginning with the letter A and what cuisine it is characteristic of. The next student should follow with the next letter in the alphabet. Students who provide correct answers are rewarded. Those who struggle may ask a friend for help. The game ends when the alphabet is covered (if you have a group bigger than 26 students, you can repeat the game twice so that everybody gets a chance).</p>

## Answers

Examples could include:

- A – apple (Great Britain), almonds (Mediterranean countries), apricots (Turkey)
- B – beetroot (Great Britain), banana (South America), bulgur (North Africa)
- C – cherries (Great Britain), coconut (United States), couscous (North Africa)
- D – Danish blue cheese (Denmark), dates (Mediterranean countries), dragon fruit (East Asia)
- E – elderflower (Great Britain), edamame beans (East Asia), eggplant (Mediterranean countries)
- F – feta (Greece), figs (Mediterranean countries), fish sauce (East Asia)
- G – grapes (Mediterranean countries), garlic (Great Britain), grapefruit (China)
- H – harissa (North Africa), hummus (North Africa), halloumi (Greece)
- I – iceberg lettuce (Great Britain)
- J – jerusalem artichoke (North America), juniper berries (Great Britain)
- K – kale (Great Britain), kohlrabi (Great Britain), kiwi (New Zealand)
- L – lime and lemon (Mediterranean countries), lobster (USA, Norway), leek (Great Britain)
- M – melon (Mediterranean countries), mango (East Asia), mozzarella (Italy)
- N – nutmeg (Asia, India), nori (East Asia), nigella seeds (North Africa)
- O – oats (Great Britain), orange (Mediterranean countries), oregano (Italy)
- P – pistachios (Mediterranean countries), passionfruit (South America), polenta (Italy)
- Q – quince (Great Britain), quinoa (South America)
- R – radish (Great Britain), rosemary (Italy), rice (East Asia, India)
- S – spearmint (Great Britain), salmon (Norway), soy beans (East Asia), seaweed (East Asia)
- T – tamarind (East Asia), tapioca (North and South America), tomatoes (North Africa)
- U – udon noodles (China)
- V – vanilla (Madagascar), veal (Great Britain), vermicelli noodles (Italy)
- W – wheat (Great Britain), watermelon (Mediterranean countries), wasabi (East Asia)
- X – xigua (African melon), xiao long bao (Chinese dumplings from Spain)
- Y – yeast (worldwide), yogurt (worldwide)
- Z – zucchini (Italy), zwieback (Germany)

\*Note that it might be very difficult to name foods beginning with certain letters, such as I, U, X or Z. You may choose to skip these letters, or keep them to make it challenging. You may continue the lesson by discussing with students why some foods are popular in the United Kingdom, and how food production affects the environment.

\*\*Some foods may obviously be sourced from multiple countries, but only the main/most obvious source country is listed.

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# Around the World in 26 letters

The experts say that you have to eat a variety of foods to provide all nutrients to be healthy. But how many foods can you actually name? This is a challenge!



Stand in a circle. The teacher will pick one person to start. They must name a food beginning with the letter A. The next person must name a food beginning with the following letter in the alphabet. For each correct answer, the person gets a point. If you struggle, you can ask a friend for help. The alphabet is over!

You can note the foods named by your class and think of any other foods?

Letter	Food	Origin	Letter	Food
A.			B.	
C.			D.	
E.			F.	
G.			H.	
I.			J.	
K.			L.	
M.			N.	
O.			P.	
Q.			R.	
S.			T.	
U.			V.	
W.			X.	
Y.			Z.	

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# Activity 14 – Seasonal Foods – It's a Season Crosses

## Teacher's Notes

Plenary activity: Noughts and crosses	
<b>Aim of the activity</b>	To introduce seasonal foods characteristic of British cuisine.
<b>Teacher's instructions</b>	<p>Split the class into four groups. Assign each group a different season (spring, summer, autumn and winter).</p> <p>Groups should take it in turns to name foods characteristic of their season. There will be six rounds:</p> <ol style="list-style-type: none"> <li>1. spring vs summer</li> <li>2. spring vs autumn</li> <li>3. spring vs winter</li> <li>4. summer vs autumn</li> <li>5. summer vs winter</li> <li>6. autumn vs winter</li> </ol> <p>If students are right, they can draw a nought or cross on the board. A food cannot be repeated. The group which manages to win the most rounds is the winner.</p>

## Answers

Some foods characteristic of different seasons include but are not limited to:

<b>spring</b>	asparagus, new potatoes, watercress, sprouts, radish, rhubarb, plums, strawberries
<b>summer</b>	aubergine, broccoli, courgette, kohlrabi, watermelon, strawberries, blackberries, apricots, peaches, beans, lettuce, spinach, mackerel
<b>autumn</b>	apples, pears, plums, pumpkin, kale, elderberries, figs, grapes, oysters, turbot
<b>winter</b>	beetroot, Brussel sprouts, cabbage, potatoes, carrots, turnips, fowl, turkey, hare, mallard, partridge, winkles, lobster

You can also find more information about seasonal foods on the following websites:

<http://www.lovebritishfood.co.uk/british-food-and-drinks/whats-in-season>

<http://www.eattheseasons.co.uk/>

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# It's a Season for Noughts and Crosses

You probably noticed that we eat more of certain foods in different seasons of the year. This is known as seasonality and refers to the life cycle of plants.

Let's see how many foods specific to each season we can find now!

Split into four groups – one for each season of the year. Now you will have another group! In turns, name a food that is characteristic of your season. You can draw a cross for each food on the board. Remember that you cannot use the same food twice. The group which manages to win the most battles, wins!



Battle	Score	Battle
spring vs summer		summer vs autumn
spring vs autumn		summer vs winter
spring vs winter		autumn vs winter

Foods characteristic of seasons of the year:


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# Activity 15 – Methods of Farming – Tr

## Teacher's Notes

Starter activity: True or false	
<b>Aim of the activity</b>	To introduce various methods of farming and explain the differences.
<b>Teacher's instructions</b>	Read the statements out loud and ask students to vote if they think they are correct, and with their left hand if they think they are wrong. Use props, e.g. red and blue cards to vote with, or a whiteboard to mark down for false.

## Answers

1. In organic farming farmers cannot use artificial pesticides or herbicides.
2. In conventional farming antibiotics are not used at all.
3. Free-range eggs are more nutritious than cage eggs.
4. Organic food usually has less pesticides than conventional food.
5. By buying Fairtrade products you support farmers in developing countries.
6. In conventional farming animal welfare standards are often breached.
7. Organic food usually has more vitamins than conventional food.
8. Sustainable farming helps to use resources in a reasonable way.
9. Organic farming usually is less costly than conventional farming.
10. In organic farming, artificial fertilisers are used to produce high-yield crops.

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# True or False

You probably have noticed that some food products in the shops are labelled 'organic', 'free-range', 'Fairtrade', etc. But what does it actually mean? Let's find out if you already know!

Your teacher will read some statements aloud. Put your right hand up if you think it is true and your left hand up if you think it is false. Then write the correct statements.

1. True/False

.....

2. True/False

.....

3. True/False

.....

4. True/False

.....

5. True/False

.....

6. True/False

.....

7. True/False

.....

8. True/False

.....

9. True/False

.....

10. True/False

.....

So how many of them did you get right? \_\_\_\_\_

What else do you need to learn, find out or discover about different methods of food production?

.....

.....

.....

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# Activity 16 – Food and the Environment Connections Map

## Teacher's Notes

Starter activity: Connections map (brainstorm)	
<b>Aim of the activity</b>	To explain how food production and the food industry affect the environment.
<b>Teacher instructions</b>	Split students into groups of four. Copy the student's worksheet. Allow students 10 minutes to create a connections map to indicate how food production affects the environment. Allow each group to present their ideas and discuss how their actions have a good or bad impact on the environment.

## Answers

This activity is intended to be open, as it allows the students to input their own views on how food production affects the environment. By comparing the connections maps of different groups, students will be able to discover various points of view and links between food production and the environment.

The answers could refer to:

- climate change
- global warming
- packaging
- use of non-renewable resources
- food miles
- carbon footprint
- pollution
- deforestation
- extinction of species
- recycling
- the quality of soil (overexploitation, low in nutrients)
- exploitation of resources and overfishing
- use of genetically modified foods

Example 1:

Food packaging can have a **good impact** as it helps to **protect the food from spoilage**; it can also have a **bad influence** as it uses a lot of **natural resources** to be produced and can cause **pollution** once used and discarded; this can then have a **good impact** again if it is be recycled.

You can help students by asking them to consider how food packaging affects the environment. They can come up with a different connections map.

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## Example 2:

When cattle are reared, they require **a lot of land area** so they can graze. This has a **bad impact** on the environment as the same area could be used to grow plants (and usually the amount of food produced is **bigger than the amount of food produced by using the area for grazing**). The cattle also produce a lot of **methane** and **carbon dioxide** (**bad impact** as these are greenhouse gases). However, their **manure** can be used as a **natural fertiliser** when growing plants (**good impact**). **Coal** to produce warmth, which helps to exploit less area for growing plants (**good impact**).

You can help students by asking them to consider how rearing animals for meat, and the impact on the environment.

## Example 3:

Some foods are **imported** to the UK from other countries. This has a **bad impact** on the environment as it involves the **use of water and oil**, and increases **emissions of carbon dioxide** into the atmosphere, contributing to **global warming**. To produce these foods, forests need to be cut down (**bad impact**). However, if the foods are produced in accordance with **Fairtrade** or **Rainforest Alliance** schemes, you can help to protect the environment as these foods are made with as little damage to the environment as possible.

You can help students by asking them to consider how importing foods from other countries impacts the environment, and whether there is anything they can do about it.

## Example 4:

In industrial farming farmers often decide to use large amounts of **artificial fertilisers**, to **boost the crops and prevent damage**. This has a **bad impact** on the environment as the **azotanes** in the soil, so it is not suitable for growing other types of plants. Also, pesticides are used, which **poison the soil and cannot pollinate plants** (**bad impact**). The use of antibiotics can **kill the bacteria in the soil** and create potentially untreatable new diseases in plants, animals and humans (**bad impact**). However, if fertilisers are used wisely they may **improve the soil and increase crop yields** (**good impact**) so it can be used for other purposes. Industrial farming usually **requires less land area**, and the remainder can be used for other purposes.

You can help students by asking them to consider how industrial farming and organic farming impact the environment.

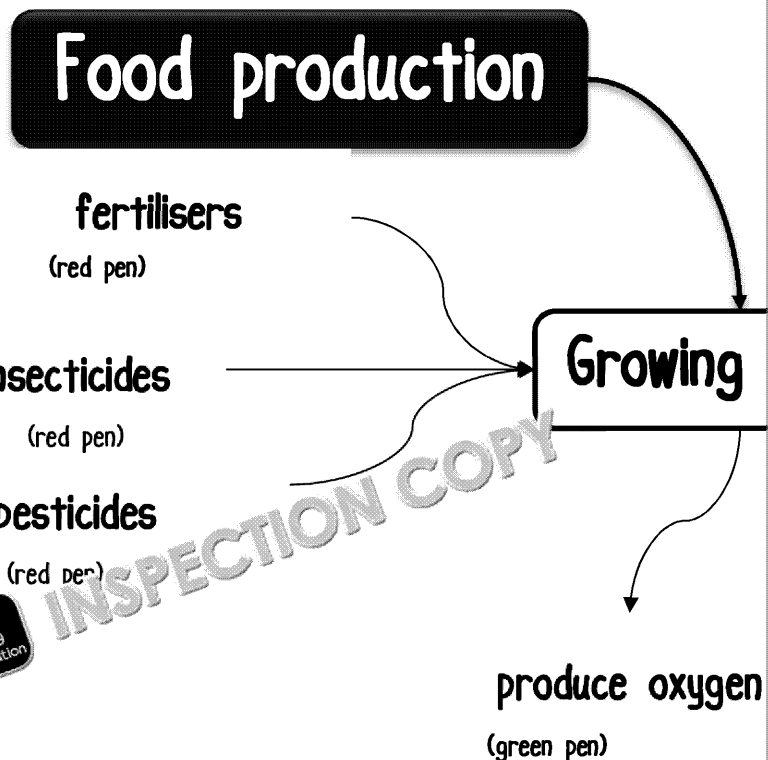
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# Environmental Connections Map

The food industry requires a lot of resources to produce the food we eat: from ingredients and fertilisers to grow them, to transporting them to factories, packaging, to selling, cooking and eating. Each stage has a great impact on the environment. What are the good influences? What are the bad influences? What are the positive or a negative influence? Let's see how many you know!

Get into groups of four. In each group, create a connections map to identify production and processing and indicate how they affect the environment. Identify the bad influences, and a green one to show the good influences.



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# Activity 17 - Additives in Food - The Secret Factory

## Teacher's Notes

### Starter activity Wordsearch

<b>Aim of the activity</b>	To introduce various sources of additives.
<b>Teacher's instructions</b>	Split the class into groups of four. Copy the student's worksheet. Give students 5 minutes to find all the words in the grid, and then to complete the other part of the activity.

## Answers

	H	C	R	A	T	S	D	E	I	F	I	D	O
E	M	U	L	S	I	F	I	E	R				
								S	W	E	E	T	
							F						
						C	O	L	O	U	R	A	N
A	N	T	I	O	X	I	D	A	N	T			
					T			V					
					A	S	C	O	R	B	I	C	A
					R			U					
					T			R					
A					R			I					
S		N			A			N					
P		I			Z			G					
A		H											
R		T			N								
T	H		C	K	E	N	E	R					
A													
M		E											
E		L				E	V	I	T	A	V	R	E

## Bonus Question (Answers):

Group:	Example:	Source (exemplary):
antioxidant	ascorbic acid	bread, fruit juices, dried milk, jam
colourant	tartrazine	processed cheese, canned and frozen foods
flavouring	monosodium glutamate	ready-to-eat foods, salt substitutes
preservative	sulfur dioxide	dried fruit, wine, processed potatoes
sweetener	aspartame	beverages and drinks, ice cream, chewing gum
thickener	modified starch	mayonnaise and other sauces, yogurt
emulsifier	lecithin	dried milk, mayonnaise, pasta, baked goods

You may use the lesson to discuss why additives are used and draw advantages and disadvantages of them.

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# The Secrets of a Food Factory

Food additives are substances which are not food in themselves, but are added to food products during manufacturing for different reasons: to improve the quality of the food, increase its shelf life and prevent spoilage.

In this food factory everything is top secret - not even the ratio of ingredients in the products! Some of them are hidden in the supergrid below - can you find them?

C	H	C	K	T	S	D	E	I	F	I	D	O	M
O			A	Y	B	L	E	B	J	F	R	C	Q
E	M	U	L	S	I	F	I	E	R	Z	T	W	A
M	U	R	B	L	E	S	N	W	S	W	E	E	T
E	R	S	I	O	S	T	U	F	I	E	R	R	E
I	M	K	O	C	L	C	O	L	O	U	R	A	N
A	N	T	I	O	X	I	D	A	N	T	Y	T	E
N	U	A	R	L	T	V	E	V	I	O	A	L	B
A	R	R	A	T	A	S	C	O	R	B	I	C	A
N	T	T	D	U	R	P	L	U	C	K	N	H	C
D	S	Z	I	R	T	I	R	S	T	I	R	Q	V
A	E	W	A	R	C	K	I	N	E	H	L	K	R
S			T	H	A	U	R	N	E	R	G	Y	I
P	A	I	E	W	Z	E	B	G	R	O	U	S	S
A	B	H	N	S	I	Z	E	H	F	E	I	H	Z
R	E	T	T	C	N	I	J	C	O	G	L	E	S
T	H	I	C	K	E	N	E	R	H	E	L	E	M
A	S	C	H	U	T	E	F	A	S	U	M	N	E
M	T	E	P	Q	E	S	T	L	B	W	G	O	S
E	N	L	I	P	F	E	V	I	A	V	R	E	S

- ☐ antioxidant
- ☐ ascorbic acid
- ☐ aspartame
- ☐ colourants
- ☐ emulsifier
- ☐ flavouring
- ☐ lecithin




- ☐ modified starch
- ☐ monosodium glutamate
- ☐ preservative
- ☐ sweetener
- ☐ sulfur dioxide
- ☐ tartrazine
- ☐ thickener

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**Bonus question:** You probably noticed that the words in the grid can be...  
 Indeed, some of them are general categories of additives, while others are...  
 substances used. Can you tell which are which? Write the names in the ta...  
 source of food each of them can be found in!

Group	Example	
		
		
		

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## Activity 18 – British Cuisine – Tasty

### Teacher's Notes

Starter activity: Tasty anagrams	
<b>Aim of the activity</b>	To introduce foods and ingredients that are characteristic of British cuisine.
<b>Teacher's instructions</b>	Copy the student's worksheet and allow one per person. Allow students up to 10 minutes to solve the anagrams and discuss the answers. Then allow another 5 minutes for a class discussion.

### Answers

1. Trout
2. Apple
3. Beef
4. Carrot
5. Bread
6. Peach
7. Tuna
8. Beans
9. Plum
10. Clams
11. Lamb
12. Leek
13. Cottage pie
14. Cornish pasty
15. Roast lamb
16. Ploughman's lunch

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# Tasty Anagrams

British cuisine is full of tasty, healthy foods. They can be either produced in the UK or imported from abroad. Let's see how many of these foods you can guess.

Look at the anagrams below. An anagram is a word in which, if the letters are rearranged, they form another word (or just a jumbled mess of letters). For example, melon is an anagram of lemon.

**Read the anagrams below and rearrange the letters to discover what they are!**



- 1 tutor \_\_\_\_\_
- 2 appel \_\_\_\_\_
- 3 feeb \_\_\_\_\_
- 4 trocar \_\_\_\_\_
- 5 beard \_\_\_\_\_
- 6 cheap \_\_\_\_\_
- 7 aunt \_\_\_\_\_
- 8 banes \_\_\_\_\_
- 9 lump \_\_\_\_\_
- 10 calms \_\_\_\_\_
- 11 balm \_\_\_\_\_
- 12 keel \_\_\_\_\_

**Got it? It's time for something more difficult!**

- 13 poetic gate \_\_\_\_\_
- 14 sporty chains \_\_\_\_\_
- 15 free boats \_\_\_\_\_
- 16 hung lump on clash \_\_\_\_\_

Got some spare time? Think of food recipes and dishes the ingredients above and write them next to the anagrams. How many can you think of?



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# Activity 19 – Factors which Influence Food Choices Quiz Cube

## Teacher's Notes

Starter activity: Quiz cube	
<b>Aim of the activity</b>	To discuss how various factors influence humans' food choices
<b>Teacher's instructions</b>	<p>Split the class into six groups.</p> <p>Get students to cut out and glue the dice. Then allow each group students should discuss how the drawn factor influences food choices. If a group draws the same factor, ask them to add more information to the dice again until a different topic is drawn.</p> <p>To save time, you may ask students to prepare the dice at home. You can also choose to discuss only one topic per lesson, and then move on to the next topic in the next lesson, until all topics are covered.</p>

## Answers\*

**Religion** – it plays a major role in food choices, especially for Muslims, Jews, Hindus, Buddhists and Christians (less so in other religions); each religion has a set of food which are forbidden, as well as festivals during which special food is eaten; for example, pork or alcohol, Jews will not eat beef together with milk, and Christians sometimes abstain from eating meat.

**Health** – people who wish to eat a healthy, balanced diet may choose to eat certain foods, e.g. eat fresh vegetables and fruit, and avoid eating processed, deep-fried foods, high in fat or sugar; also certain conditions and diseases may require special diets, e.g. in type 2 diabetes, etc.

**Time of year** – an important factor due to seasonality of produce and due to different food preferences during certain times in a year.

**Age** – is an important factor as, depending on age, people have different nutritional needs; a baby should only be fed milk (breast or formula), while a toddler should be introduced to solid foods; similarly, teenagers should eat a diet rich in protein, iron and calcium, while older people may need more of these nutrients.

**Physical activity** – can influence people to eat different foods, or to increase or decrease the consumption of certain products; for example, people who wish to improve their muscles may choose to eat more proteins (to include special protein drinks, powders, bars, etc.), while people who are sedentary may need more carbohydrates in their diet; physical activity also increases energy needs, so people who are active need more energy in general.

**Money** – money is a very important factor in food choices; the amount of money a person has, or the cost of food in the shop, will often dictate what a person can buy; it is important to note that people with low income, with larger families, may have to buy a lot of cheap food (e.g. tinned food), while people with higher income may buy more expensive items.

\*Please note that these answers are exemplary only and students may come up with other factors.

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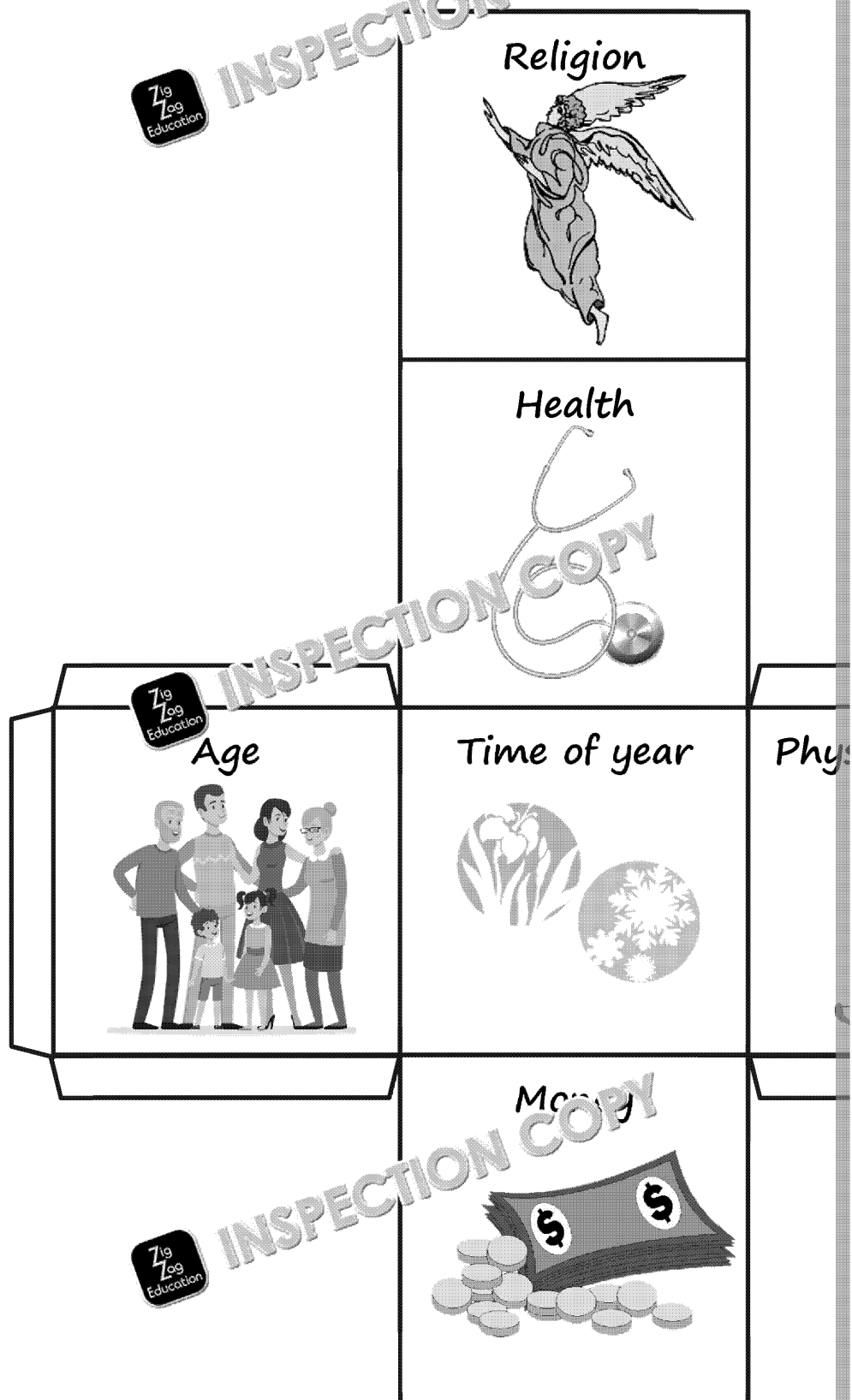
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# Food Choices Quiz Cube

Have you ever wondered why people eat what they eat? Why we choose certain foods in the morning, and other foods in the evening? And why w

Cut out the dice and glue it together. Throw the dice and try to explain h people's food choices!



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# Activity 20 - Calculating the Cost of a Dish

## Teacher's Notes

Plenary activity: Cheaping in	
<b>Aim of the activity</b>	To indicate that good and healthy food doesn't need to be expensive, affordable and available for all.
<b>Teacher's instructions</b>	<p>After a practical cooking session, ask students to get back into their groups (i.e. if they cooked in pairs, let them get back into the same pairs). Ask the students to open a price comparison website either on a computer or on their phones (if they have any and are allowed to use them in class). Allow students 10 to 15 minutes to calculate an average cost of the ingredients they cooked more than one, ask them to choose one only). Then ask them to find three ways in which the dish can be made cheaper.</p> <p>Websites you could use include <a href="https://www.mysupermarket.co.za">https://www.mysupermarket.co.za</a> and <a href="https://www.pricecheck.co.za/categories/8342/Groceries">https://www.pricecheck.co.za/categories/8342/Groceries</a> (choose a supermarket (e.g. one which is closest to school)).</p> <p>Please note that there is an additional worksheet for less able students to help them understand how to work out the cost of a dish. You can print this out for them.</p>

## Answers

There are no good or bad answers. Ensure that students understand how to calculate the cost of a portion.

Some ideas for lowering the price of a dish could include:

- buying in a different shop
- choosing a supermarket's own brand products
- buying products which are on discount
- bulk buying
- replacing more expensive foods with their cheaper substitutes
- replacing meat with cheaper options
- using frozen vegetables as often they are cheaper than fresh ones (yet equally nutritious)

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# Cheaping in

The most exciting part of any food-related course is actually cooking it. Once you have just prepared something really delicious in class. We're sure you put in effort and look good, but... what about the cost?

Today you're about to find out how much a portion of your dish costs.

Go to a price comparison website (your teacher will tell you which one) and list the price of all ingredients used to prepare your dish. Remember to adjust the price to show how much it would cost to prepare ONE PORTION of your food!

Use the table below to list all the ingredients you used, their price per package and the size of the package. Then add the prices up to see how much one portion costs.

Ingredient	Price per package	Size of package	Size of portion
			Sum:

The price of food is very important – in fact, it is one of the most important factors when buying food. Do you think there is a way of making your dish cheaper?

- .....
- .....
- .....

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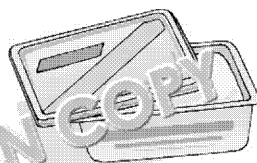


# How to Calculate the Price of a Portion of

1. Check the price of all ingredients used.

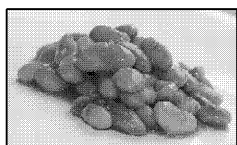


can of beans (400 g) = £1.00

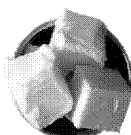


block of butter (250 g) = £1.50

2. Check how much of each ingredient you actually need to make one portion. For example, to make beans on toast you only need:

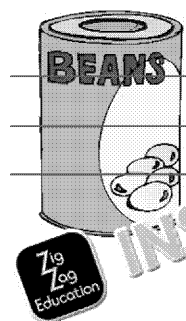


100 g of beans

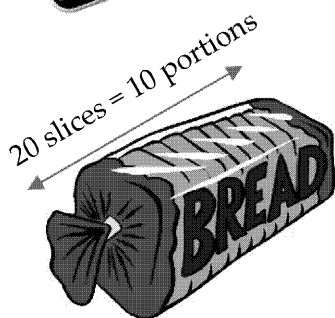


10 g of butter

3. Get your calculator ready!



A can of beans weighs 400 g, but you only need 100 g for one portion. This means that one portion of beans will cost  $\frac{£1.00}{400 \text{ g}} \times 100 \text{ g} = £0.25$ . In other words, one can of beans holds four portions, so you can simply divide the price of the can by the number of portions to see how much each portion costs.  $\frac{£1.00}{4} = £0.25$

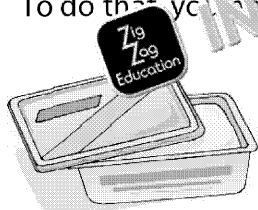


A block of butter weighs 250 g, but you only need 10 g for one portion. This means that one portion of butter will cost  $\frac{£1.50}{250 \text{ g}} \times 10 \text{ g} = £0.06$ . In other words, a block of butter holds 25 portions, so you can simply divide the price of the block by the number of portions to see how much each portion costs.  $\frac{£1.50}{25} = £0.06$

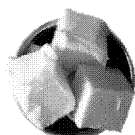
A loaf of bread holds 20 slices in it, but you only need 2 slices for one portion. This means that one portion (2 slices) of bread will cost  $\frac{\text{price of loaf}}{10}$ . In other words, a loaf of bread holds 10 portions, so you can simply divide the price of the loaf by the number of portions to calculate how much each portion costs.

4. Once you know how much a portion of each ingredient costs, you can calculate the total price of one portion of the dish.

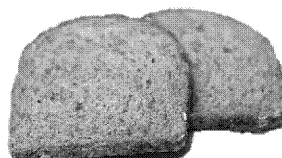
To do that you need to total the price of one portion of each ingredient.



100 g beans costs £0.25



10 g butter costs £0.06



2 slices of bread cost £0.10

£0.41

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# Activity 21 – Vegetarian and Vegan Diets

## Teacher's Notes

### Starter activity: Crack the safe

<b>Aim of the activity</b>	To introduce various types of vegetarianism and veganism, and on the environment.
<b>Teacher's instructions</b>	Split the class into groups of four. Copy the answer tiles and accordingly / now. Students 10 minutes to cut out the tiles and

### Answers

[P] Scientists around the world have proved that eating meat is unsustainable – m earth and

[ES] to human body. It contributes to global warming, deforestation, and diseases

[C] bowel cancer. For this reason, many people decide to become vegetarian. Ve

[A] eating meat. Vegetarian diet is mostly based on fruits and vegetables. Howev choose to eat

[TA] some foods of animal origin. Those who choose to eat milk and dairy are ca

[R] lacto-vegetarians. Those who choose to eat eggs are

[IA] called ovo-vegetarians and those who eat both are called

[N] lacto-ovo-vegetarians. A special group of vegetarians who do not eat any foo

[S] origin are called vegans.









The code is **VEGETARIANS** – a specific group of people who, except for plant-d shellfish.

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## Activity 21 – Crack the Safe Tiles

 lacto-vegetarians. Those who choose to eat eggs are 	Scientists around the world have proved that eating meat is unsustainable – meaning that it is harmful to the earth and  	eati is m veg gro to e
bowel cancer. For this reason, many people decide to become vegetarian. Vegetarians are people who avoid 	lacto-ovo-vegetarians. A special group of vegetarians who do not eat any food of animal 	to ti con war dise
origin are called vegans. 	some foods of animal origin. Those who choose to eat milk and dairy are called 	calle thos

 lacto-veg  ns. Those who choose to eat eggs are 	Scientists around the world have proved that eating meat is unsustainable – meaning that it is harmful to the earth and 	eati is m veg gro to e
bowel cancer. For this reason, many people decide to become vegetarian. Vegetarians are people who avoid 	lacto-ovo-vegetarians. A special group of vegetarians who do not eat any food of animal 	to ti con war dise
origin are called vegans.  	some foods of animal origin. Those who choose to eat milk and dairy are called 	calle thos


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# Crack the Safe

Your teacher will provide you with some tiles. Cut them out and stick them in the correct order to reveal the code and crack the safe!

 stick the labels here	 stick the labels here
 stick the labels here	 stick the labels here

C	O		1	=							
---	---	---	---	---	--	--	--	--	--	--	--

Do you know what that word means?

.....

.....

.....

.....

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## Activity 22 – Vegetarian and Vegan Diets – Vegetarianism

### Teacher's Notes

Plenary activity – Colour-coding	
<b>Aim of the activity</b>	To recap knowledge about vegetarian and vegan diets.
<b>Teacher's instructions</b>	Split the class into pairs. Copy the student's worksheet according to the instructions. Give students 10 minutes to complete the activity.



### Answers

Suitable for lactovegetarians:

- milkshake
- couscous with vegetables
- baked beans
- hummus
- tikka masala sauce (made with yoghurt)
- tea with honey
- plain corn tortilla
- tomato ketchup
- broccoli and stilton soup

Suitable for ovovegetarians:

- couscous with vegetables
- baked beans
- hummus
- Glamorgan sausages (made with eggs)
- scrambled eggs
- falafels (made with eggs)
- tea with honey
- mayonnaise (made with eggs)
- plain corn tortilla
- tomato ketchup

Suitable for vegans:

- couscous with vegetables
- baked beans
- hummus
- plain corn tortilla
- tomato ketchup

Not suitable for any:

- spaghetti bolognese
- pancakes (contain eggs)
- cream tea (contains eggs)
- fish and chips (contains fish)
- beefburger (contains meat)
- cheesecake (contains dairy)
- pork sausage (contains meat)

Bonus question: The logo would be used on the labels of vegan foods.



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# True Colours of Vegetarianism

You already know what vegetarians and vegans eat – or do you? Let's find out!

Get into pairs. Colour-code the different kinds of diets below and then choose which foods and dishes are suitable for each of them.

Note that some may be suitable for more than one group, and others may not be suitable for any.



☐ lactovegetarian

☐ ovovegetarian

<b>milkshake</b>	<b>couscous with vegetables</b>	<b>spaghetti bolognese</b>
<b>hummus</b>	<b>pancakes</b>	<b>cream tea</b>
<b>fish and chips</b>	<b>Glamorgan sausage</b>	<b>scrambled eggs</b>
<b>tea with honey</b>	<b>mayonnaise</b>	<b>beefburger</b>
<b>pork sausage</b>	<b>plain corn tortilla</b>	<b>tomato ketchup</b>

Bonus question: Can you tell which foods would be labelled with the

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# Activity 23 - Adjusting and Modifying Recipes for Different Dietary Needs - (Un)healthy

## Teacher's Notes

Starter activity: Match up	
<b>Aim of the activity</b>	To show and explain how food can be chosen or modified to meet different dietary needs.
<b>Teacher instructions</b>	Split the class into pairs. Copy the student's worksheet according to the number of pairs. Allow students 10 minutes to complete the activity. Collect the worksheets and ask students to vote whether they are right or wrong. Discuss the results and how choosing correct foods can help improve one's health.

## Answers

	Suitable	Not suitable	
Obesity	sushi	macaroni cheese	high
	tuna salad	apple crumble	contains
	corn tortilla	hot dog	high
	cottage pie	quiche Lorraine	high
	rare beef steak	rice pudding	high
		chocolate	high
		cheesecake	high
		sausage rolls	high
		cheese and ham sandwich	high
		fish and chips	high
Tooth decay	sushi	apple crumble	high
	macaroni cheese	rice pudding	high
	tuna salad	chocolate	high
	corn tortilla	cheesecake	high
	hot dog		
	quiche Lorraine		
	cottage pie		
	rare beef steak		
	sausage rolls		
	cheese and ham sandwich		
	pizza margherita		
	fish and chips		

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	Suitable	Not suitable	
High blood pressure	sushi	macaroni cheese	high
	tuna salad	hot dog	high
	corn tortilla	quiche Lorraine	high
	apple crumble	cottage pie	high
	rice pudding	chocolate	high
	rare beef steak	cheesecake	high
		sausage rolls	high
		cheese and ham sandwich	high
Milk allergy		pizza margherita	high
		fish and chips	high
	sushi	macaroni cheese	contains
	tuna salad	quiche Lorraine	contains butter
	corn tortilla	rice pudding	contains
	apple crumble	cottage pie	contains cheese
	hot dog	chocolate	contains
	rare beef steak	cheesecake	contains
Pregnancy	sausage rolls	cheese and ham sandwich	contains
	fish and chips	pizza margherita	contains
	macaroni cheese	sushi	contains
	corn tortilla	tuna salad	contains
	apple crumble	rare beef steak	contains
	hot dog		
	quiche Lorraine		
	rice pudding		
	cottage pie		
	chocolate		
	cheesecake		
	sausage rolls		
	cheese and ham sandwich		
	pizza margherita		
	fish and chips		

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	Suitable	Not suitable	Why?
Lactose intolerance	sushi	macaroni cheese	contains high amount of (cheese, butter)
	tuna salad	quiche Lorraine	contains high amount of (cheese, cream, butter)
	corn tortilla	rice pudding	contains high amount of (cream, butter)
	apple crumble	chocolate	contains milk
	hot dog		
	cottage pie*		
	rare beef steak		
	cheesecake*		
	sausage rolls		
	cheese and ham sandwich*		
	pizza margherita*		
	fish and chips		
Coronary heart disease	sushi	macaroni cheese	high in fats and salt
	tuna salad	hot dog	high in fats and salt
	corn tortilla	quiche Lorraine	high in fats and salt
	apple crumble	chocolate	high in fats and sugar
	rice pudding	cheesecake	high in fats and sugar
	cottage pie	sausage rolls	high in fats and salt
	rare beef steak	cheese and ham sandwich	high in fats and salt
		pizza margherita	high in fats and salt
		fish and chips	high in fat and salt
Coeliac disease	sushi	macaroni cheese	contains wheat (past)
	tuna salad	apple crumble	contains wheat (flour)
	corn tortilla	hot dog	contains wheat (bun)
	rice pudding	quiche Lorraine	contains wheat (past)
	chocolate	crêpes	contains wheat (flour)
	rare beef steak	cheesecake	contains wheat (bisc)
		sausage rolls	contain wheat (past)
		cheese and ham sandwich	contains wheat (bread)
		pizza margherita	contains wheat (dough)
		fish and chips	contains wheat (batter)

\*These foods may (or do) contain cheese. These may need to be avoided by people with lactose intolerance as cheese is produced using milk, however the sugar found in milk (lactose) is fermented during production. Therefore cheese contains less lactose than milk itself, but if it is consumed in high proportions it may cause symptoms in lactose intolerant people.

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obesity	tooth decay	high blood pressure	milk allergy	pregnancy	lactose intolerance
sushi	sushi	sushi	sushi	sushi	sushi
macaroni cheese	macaroni cheese	macaroni cheese	macaroni cheese	macaroni cheese	macaroni cheese
tuna salad	tuna salad	tuna salad	tuna salad	tuna salad	tuna salad
corn tortilla	corn tortilla	corn tortilla	corn tortilla	corn tortilla	corn tortilla
apple crumble	apple crumble	apple crumble	apple crumble	apple crumble	apple crumble
hot dog	hot dog	hot dog	hot dog	hot dog	hot dog
quiche Lorraine	quiche Lorraine	quiche Lorraine	quiche Lorraine	quiche Lorraine	quiche Lorraine
rice pudding	rice pudding	rice pudding	rice pudding	rice pudding	rice pudding
cottage pie	cottage pie	cottage pie	cottage pie	cottage pie	cottage pie
chocolate	chocolate	chocolate	chocolate	chocolate	chocolate
rare beef steak	rare beef steak	rare beef steak	rare beef steak	rare beef steak	rare beef steak
cheesecake	cheesecake	cheesecake	cheesecake	cheesecake	cheesecake
sausage rolls	sausage rolls	sausage rolls	sausage rolls	sausage rolls	sausage rolls
cheddar and ham sandwich	cheddar and ham sandwich	cheddar and ham sandwich	cheddar and ham sandwich	cheddar and ham sandwich	cheddar and ham sandwich
pizza margherita	pizza margherita	pizza margherita	pizza margherita	pizza margherita	pizza margherita
fish and chips	fish and chips	fish and chips	fish and chips	fish and chips	fish and chips

2. What could happen if someone ate the unsuitable foods:

- **Obesity** – the chances of losing weight would be slim; they could continue to gain weight, increasing the chances of developing other conditions such as type 2 diabetes and heart disease.
- **Tooth decay** – the condition might worsen and lead to pain and tooth loss.
- **High blood pressure** – the blood pressure could rise even higher, leading to heart disease and strokes.
- **Milk allergy** – the person could develop a life-threatening anaphylactic reaction (as the lining in the trachea would swell up, making breathing impossible).
- **Pregnancy** – the woman could become sick from pathogens in the food, which could harm the foetus; also heavy metals (mercury) could harm the foetus' nervous system.
- **Lactose intolerance** – the person could experience bloating, stomach pain and diarrhoea.
- **Coronary heart disease** – nothing may happen immediately, but in the long term the condition could worsen, increasing the risk of heart attack or stroke.
- **Coeliac disease** – gluten could damage the lining in the digestive tract, leading to malnutrition; also painful stomach cramps and diarrhoea could occur.

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# (Un)healthy Choices

We're pretty sure everyone in class has their favourite food, which they like to eat often and on various occasions. But some people cannot eat certain foods because of their state, religious or ethical beliefs, or other reasons. In such cases, people who have these needs need to modify and adjust recipes to cater for their needs. But how?

1. Get into pairs. In each pair, you will be given a list of foods. You will have to decide the foods that are suitable for people with different needs. Try to explain why certain foods are not suitable for them.

object	tooth decay	high blood pressure	milk allergy	pregnancy	lactose intolerance
sushi	sushi	sushi	sushi	sushi	sushi
macaroni cheese	macaroni cheese	macaroni cheese	macaroni cheese	macaroni cheese	macaroni cheese
tuna salad	tuna salad	tuna salad	tuna salad	tuna salad	tuna salad
corn tortilla	corn tortilla	corn tortilla	corn tortilla	corn tortilla	corn tortilla
apple crumble	apple crumble	apple crumble	apple crumble	apple crumble	apple crumble
hot dog	hot dog	hot dog	hot dog	hot dog	hot dog
quiche Lorraine	quiche Lorraine	quiche Lorraine	quiche Lorraine	quiche Lorraine	quiche Lorraine
rice pudding	rice pudding	rice pudding	rice pudding	rice pudding	rice pudding
cottage pie	cottage pie	cottage pie	cottage pie	cottage pie	cottage pie
chocolate	chocolate	chocolate	chocolate	chocolate	chocolate
rare beef steak	rare beef steak	rare beef steak	rare beef steak	rare beef steak	rare beef steak
cheesecake	cheesecake	cheesecake	cheesecake	cheesecake	cheesecake
sausage rolls	sausage rolls	sausage rolls	sausage rolls	sausage rolls	sausage rolls
cheddar and ham sandwich	cheddar and ham sandwich	cheddar and ham sandwich	cheddar and ham sandwich	cheddar and ham sandwich	cheddar and ham sandwich
pizza margherita	pizza margherita	pizza margherita	pizza margherita	pizza margherita	pizza margherita
fish and chips	fish and chips	fish and chips	fish and chips	fish and chips	fish and chips

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2. What do you think would happen if they tried them anyway?

Obesity

.....

.....

Tooth decay

.....

High blood pressure

.....

.....

Milk allergy

.....

.....

Pregnancy

.....

.....

Lactose intolerance

.....

.....

Coronary heart disease

.....

.....

Coeliac disease

.....

.....

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# Activity 24 – Adjusting and Modifying Recipes for Different Dietary Needs – Uncle Sage

## Teacher's Notes

Plenary activity: Uncle Sage Advice	
<b>Aim of the activity</b>	To recap knowledge about how to adjust and modify recipes to suit various groups of people.
<b>Teacher instructions</b>	Split the class into groups of four. Copy the student's worksheet and give them recipes and characteristics labels. Ask each group to draw one recipe and one label. Allow students to make many modifications as possible to make the recipe healthier or more suitable for an individual.

## Answers

Instead of using provided recipes, you can also cut out recipes from newspapers or magazines to use as your own.

Some ideas could include:

- replacing bacon with a low-sodium variety
- replacing beef mince with a low-fat variety
- replacing cheese with a vegan cheese (e.g. tofu)
- replacing whole milk with a skimmed one
- adding raisin, nuts or chopped fruit instead of sugar
- using milk instead of cream
- replacing mayonnaise with a low-fat variety, or replacing part of it with yoghurt
- adding grated or chopped vegetables to increase the amount of fibre
- replacing butter with a safer alternative, e.g. silken tofu or apple sauce
- replacing white flour with a wholemeal one

## What to pay attention to for each individual:

**John:** needs to cut down on sugar, saturated and total fats, needs to increase consumption of dietary fibre

**Jane:** needs to eat more foods rich in vitamin D and calcium, such as oily fish, salmon

**Chris:** needs to avoid wheat, rye and barley, so plain flour in all recipes must be replaced with gluten-free flour

**Laura:** needs to avoid eggs and milk in all forms, but also would benefit from cutting down on sugar (to avoid tooth decay)

**Ethan:** needs a lot of protein and energy, so would benefit from extra-lean meat, or plant-based protein substitutes in recipes

**Layla:** needs more protein to support the rapid growth of her body, and more iron to help with blood production. She would benefit from iron-rich, high-protein foods such as tofu, soy, quinoa, hummus, lentils, chickpeas, Protein, Quinoa, but also from foods rich in vitamin C, which improves iron absorption

**Ibrahim:** needs to cut down on saturated fats, total fats, sugar and salt; may need to avoid processed foods (such as Worcester sauce and mayonnaise) and preserved capers)

**Zara:** needs to cut down on salt consumption

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# Recipes

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## Quiche Lorraine

Pastry: 225g plain flour, 100g butter, salt

Filling: 6 rashers smoked bacon, 5 large eggs, ½ pint single cream, 150ml whole milk, 150g Cheddar cheese

Serves 4

## Fishcakes

Fish cakes: 450g haddock, 350g potatoes, 1 egg, breadcrumbs, 500ml

Tartare sauce: 125ml mayonnaise, 1 shallot onion, 1 tsp parsley, 1 tsp chopped

Serves 6

## Leek and potato soup

225g potatoes, 2 leeks, 1 litre chicken stock, 150ml double cream, 50ml sunflower oil, 1 onion, salt, pepper

Serves 6

## Cauliflower soup

1kg cauliflower, 50g butter, 500ml whole milk, 1 tsp salt, pepper

Serves 8

## Ham and cheese sandwich

2 slices soft white bread, 20g butter, 50g smoked ham, 50g Cheddar cheese

Serves 1

125g butter, 125g castor sugar, 125g condensed milk, 125g condensed syrup, 300g rolled oats

Serves 16

## Spaghetti bolognese

350g white spaghetti pasta, 2 tbsp olive oil, 2 garlic cloves, 500g beef mince, 1 onion, 1 tin chopped tomatoes, 150ml chicken stock, 1 tbsp Worcester sauce, salt, pepper

Serves 4

Crust: 575g plain flour, 125g butter, 125g castor sugar, 125g condensed milk, 125g condensed syrup, 300g rolled oats

Stuffing: 800g pork shoulder, 250g smoked bacon, 1 egg for glazing

Serves 16

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## Characters

### Case study 1: John

**Age:** 52

**Profession:** chef

**Physical activity:** only at work

**Dietary needs:** obese, needs to lose weight



### Case study 2: Jane

**Age:** 75

**Profession:** retired teacher

**Physical activity:** walks

Chihuahua 3 times a week

**Dietary needs:** osteoporosis, needs calcium and vitamin D

### Case study 3: Chris

**Age:** 15

**Profession:** student

**Physical activity:** member of the school's rugby team

**Dietary needs:** coeliac (cannot eat gluten)



### Case study 4: Laura

**Age:** 8

**Profession:** student

**Physical activity:** trains three times a week

**Dietary needs:** allergic to eggs and milk

### Case study 5: Ethan

**Age:** 21

**Profession:** teacher

**Physical activity:** plays rugby twice a week

**Dietary needs:** high physical activity (needs a lot of energy and protein to improve performance)



### Case study 6: Layla

**Age:** 13

**Profession:** student

**Physical activity:** curfew as has broken her leg 6 months ago

**Dietary needs:** begins to lose weight recently became vegetarian (will need more iron)

### Case study 7: Ibrahim

**Age:** 35

**Profession:** doctor

**Physical activity:** cycles to work every day

**Dietary needs:** coeliac, has heart disease (needs to control blood cholesterol levels and cut down on saturated fats and sugar)



### Case study 8: Zara

**Age:** 45

**Profession:** sales manager

**Physical activity:** works long hours so has no time for the gym

**Dietary needs:** high blood pressure (needs to eat less salt)

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# Uncle Sage Advice

Meet Uncle Sage Advice – he's a funny, supportive and surprisingly competent old guy who loves to help others and lend a hand with all tasks from fixing a leaking sink to cat-sitting to lawnmowing. Well, he's got sick and needs some assistance in adjusting some food recipes for his neighbours.

Your teacher has prepared the food recipes and people's dietary needs cards. Get into groups of four and draw one card from each stack. You then have to suggest as many ways to adjust or modify the recipe as possible to make it suitable for your drawn individual! Do your best, you don't want to disappoint Uncle Sage Advice, do you?



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My recipe:

My character's  
name:



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# Activity 25 – Food Allergies – Hot

## Teacher's Notes

Plenary activity: Hot potato	
<b>Aim of the activity</b>	To recap knowledge about food allergies.
<b>Teacher's instructions</b>	Get pupils to stand in a circle. Students should throw a ball (or naming a food allergen) from allergens required to be listed on who has it correctly get a point. The student who collects the

## Answers

There are 14 groups of food allergens that have to be indicated on a food label by the wider category (e.g. peanut) or a specific product that contains them (e.g. pea case, students should also state what allergen occurs in the product (e.g. bread –

Possible answers could include:

Allergen	Examples of answer
celery	celeriac, celery salt, Waldorf salad, stock cubes
cereals containing gluten	wheat, rye, barley, spelt, Khorasan wheat, bread crumbs, cookies, pasta, white sauce, soy sauce, beer, pastry,
crustaceans	crab, lobster, prawn, scampi, shrimp paste, crayfish
eggs	mayonnaise, pasta, quiche, pasties, pastry
fish	all fish species, fish sauce, Worcestershire sauce, stock cubes
lupin	seeds, bread, pasta
milk	cream, powdered milk, milk chocolate, yoghurt, white sauce, rice pudding, custard
molluscs	mussels, snails, squid, whelks, octopus, oysters, clam
mustard	mustard powder, mustard seed, pickles, curry, sauce
peanuts	peanut butter, cookies, peanut oil, stir-fry, curry, sat M&M's®
sesame seeds	bread, breadsticks, tahini paste, sesame oil, hummus
soya	tofu, edamame beans, soy sauce, TVP, soy cream, so
sulphur dioxide (sulphite)	dried fruits, raisins, apricots, prunes, wine, beer
tree nuts	cashew, almonds, Brazil nuts, hazelnuts, pistachios, chocolate bars, curry, tikka masala sauce

\*Oats are naturally gluten-free, but are often processed in factories alongside gluten-containing products and can become contaminated.

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# Hot Potato

Food allergy is a reaction of your immune system to a particle in food. As your mouth and throat can swell up, you can develop hives (a red rash on your skin) or experience difficulties breathing. Your blood pressure can drop and you can develop a dangerous reaction called anaphylactic shock.

There are 14 food allergens which are so common that they have to be indicated on a food label. How many of them do you know? Let's see how many of them you know.

Grab a small ball and stand in a circle. Throw the ball while naming one of these 14 food allergens. Students who correctly name an allergen (or a food containing it) get a point. Make sure nobody repeats the answers! The student who collects the most points, wins!

You can use the table below to note down the allergens you have learnt about today!

Main food allergens		Foods that contain
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		
10.		
11.		
12.		
13.		
14.		

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## Activity 26 – Food Intolerances – (Not So)

### Teacher's Notes

Plenary activity: Fact file	
<b>Aim of the activity</b>	To recap information about the most common food intolerances and gluten intolerance (coeliac disease).
<b>Teacher's instructions</b>	Split the class into pairs. Copy the student's worksheet according to the number of pairs. Allow students 10 minutes to complete the fact files about lactose intolerance and coeliac disease. Then check their answers and analyse them to discuss in the plenary.

### Answers

#### Lactose Intolerance

'Origin' could include what lactose is / where it occurs (a disaccharide found in milk).

'Charges' could include most common symptoms, such as bloating, diarrhoea, stomach pain.

'Last seen' could include foods which contain it, e.g. milk, butter, milk chocolate, yoghurt.

#### Coeliac Disease

'Origin' could include what gluten is / where it occurs (a protein found in cereals).

'Charges' could include most common symptoms, such as bloating, diarrhoea, damage to the small intestine, impaired absorption.

'Last seen' could include foods which contain it, e.g. wheat, barley, rye and all food made from these, e.g. bread, pasta.

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# (Not So Secret) Fact Files

Food intolerance is a reaction of the digestive system to a food product. Food intolerances can be either acquired during a lifetime, or develop early in life due to predispositions.

The X Archive has a cabinet full of secret data. You need to find the hidden Ms Lactose Intolerance and her partner in crime, Mr Coeliac Disease. Go to the X Archive to complete the fact file which will help you catch the mischievous couple!

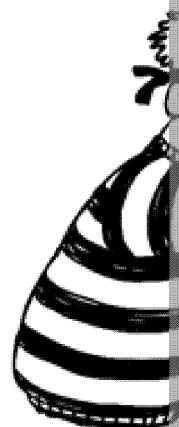


**Suspect:** *Ms Lactose Intolerance*

**Origin:**

**Charges:**

**Last seen:**



**Suspect:**

**Origin:**

**Charges:**

**Last seen:**

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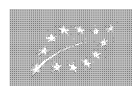


# Activity 27 - Food Labelling - How Much

## Teacher's Notes

Starter activity: How much do you know	
<b>Aim of the activity</b>	To interpret the information included on food labels.
<b>Teacher's instructions</b>	Split the class into groups of four. Copy the student's worksheet. Allow student to discuss and complete the activity. Take 5 minutes.

## Answers



European Union organic food logo: may be used on all foods produced from organic fruits, vegetables, meat, milk, dairy products.



European Vegetarian Union mark: may be used on all products suitable for vegetarians from meat.



Universal mark used on food packaging to indicate that it is suitable for all packaging which is recyclable, e.g. paper, carton, tin, glass.



Gluten-free mark: may be used on all foods which are free from gluten, wheat, rye or barley.



Mark used with food: may be used on food packaging that has been used with food, e.g. plastic plates and cups.



Fairtrade: may be used on foods which were produced in compliance with Fairtrade standards, e.g. bananas, coffee, sugar.



Marine Stewardship Council: may be used on all fish and shellfish products caught in a sustainable way, e.g. canned tuna.



Soil Association: may be used on all food products that were assessed as good in the UK.



RSPCA Assured: may be used on foods that were produced with respect to animal welfare.

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# How Much Do You Know?

If you look at a food's package, you may notice various signs and symbols. But do you know what they all mean? Let's check how much you know!

Under each of the signs below write what you think it means. Then try to find them on!



What does it mean?

.....

What foods is it used on?

.....

.....

.....



What does it mean?

.....

What foods is it used on?

.....

.....

.....



What does it mean?

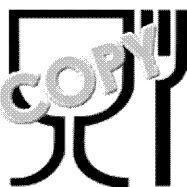
.....

What foods is it used on?

.....

.....

.....



What does it mean?

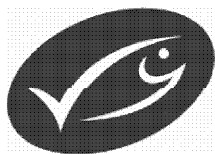
.....

What foods is it used on?

.....

.....

.....



What does it mean?

.....

What foods is it used on?

.....

.....

.....



What does it mean?

.....

What foods is it used on?

.....

.....

.....

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# Activity 28 – Analysing and Interpreting Questionable Label

## Teacher's Notes

Plenary activity – posed questions	
Aim of the activity	To develop practical skills that enable students to make informed choices
Teacher's instructions	Copy each student's worksheet accordingly to allow one per person. Allow students 10 minutes to answer the questions, and then discuss the answers.

## Answers

- 200 g (half a can).
- 162 kcal.
- Beans (it is first in the list of ingredients, which means that it was used in the largest amount). Other types of beans may also be used, but navy or haricot beans are most commonly used in baked beans.
- There are no major allergens in baked beans.
- Baked beans are safe for consumption by both vegetarians and vegans as they contain no animal products of animal origin.
- RI means Reference Intake. It shows how much of each nutrient is required for a healthy diet. For baked beans, so that we can easily calculate how much we can eat to keep our diet healthy. Baked beans would not be a good idea as we would consume too much salt and fat.
- This is because the metal in the tin is made of can react with oxygen from air, causing an unpleasant metallic taste.
- This is because beans are first cooked at a high temperature, which kills microorganisms. They are then sealed and sterilised. Thanks to this, oxygen is removed from the tin and bacterial food spoilage.

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# Questionable Label

Food labels have many various functions: they inform what food is contained in, give information about its nutritional value, origin, instructions for use and more.

Inspect the information found on a food label below and answer the following questions.

## Baked beans in rich tomato sauce

Nutrition Facts			
	per 100 g	per portion (1/2 can)	% RI per serving
Energy	78 kcal	162 kcal	8%
Fat	0.2g	0.4g	1%
Saturates	trace	trace	<1%
Carbohydrates	12.5g	25.9g	10%
Sugars	4.7g	9.8g	11%
Proteins	4.7g	9.7g	19%
Fibre	3.7g	7.7g	
Salt	0.6g	1.2g	21%

**Ingredients**  
water, sugar, cornflour, salt, tomato extract

After opening, drain beans into a separate container. For best results, use within 24 hours.

**Best before** 12 months

- How many grams is a portion of baked beans?  
.....
- How many calories are provided with a portion of baked beans?  
.....
- Which ingredient was used in the largest amount?  
.....
- Are there any allergens in the baked beans? What are they?  
.....
- Can baked beans be eaten by vegetarians? How about vegans?  
.....
- What does RI stand for? Why is it important?  
.....

7. Why should you pour the beans into a bowl after opening the can?

.....

.....

.....

.....

8. How is it possible for baked beans to have a very long shelf life?

.....

.....

.....

.....

### Did you know?

No matter how many beans you eat during the day, it counts as **one** of your **5 a day** only!

This is because, although beans are high in fibre, they provide fewer other nutrients, so it's important to eat other fruits and vegetables to provide the rest.

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# Activity 29 – Kitchen Equipment – Tools of Game

## Teacher's Notes

Starter activity: Taboo	
<b>Aim of the activity</b>	To introduce various kitchen equipment and utensils and understand their uses.
<b>Teacher's instructions</b>	Copy and distribute the worksheet to allow one per person. Each student has to prepare a list of five items or utensils found in the kitchen and write down five 'taboo' words for each. Then students should get into groups to play the game to see how many words their classmates will guess.

## Answers

There are no good or bad answers as long as students understand the rules of the game.

An example could include 'a knife' – taboo words (words which cannot be used when describing the item) could be 'cutting, chopping, vegetable, sharp, pointed, slicing'.

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# Tools of the Trade Taboo Game

So it's happening – you're going to learn how to prepare and cook food! Before you do that, you need to get to know what utensils and equipment and learn how to use them properly!

Go around the class and list five items or utensils. Then for each of them, list five words that cannot be used when describing those items.

Get into groups of four and try to describe your utensils. How many of them can you guess? Do you think you could have made the clues more difficult?



<b>Utensil/equipment piece:</b>	<b>Utensil/equipment piece:</b>
Taboo words: 1. 2. 3. 4. 5. 6.	Taboo words: 1. 2. 3. 4. 5. 6.
<b>Utensil/equipment piece:</b>	<b>Utensil/equipment piece:</b>
Taboo words: 1. 2. 3. 4. 5. 6.	Taboo words: 1. 2. 3. 4. 5. 6.
<b>Utensil/equipment piece:</b>	<b>Utensil/equipment piece:</b>
Taboo words: 1. 2. 3. 4. 5. 6.	Taboo words: 1. 2. 3. 4. 5. 6.

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## Activity 30 – Food Safety – Hot & Cold

### Teacher's Notes

Starters and Plenaries: Hot or cold?	
<b>Aim of the activity</b>	To introduce practical temperatures for food safety.
<b>Teacher's instructions</b>	<p>Split the class into groups of six. Copy the student's worksheet accordingly.</p> <p>Each student in each group will take it in turns to moderate the game. Give each student in each group one of the labels, so that they can ask the questions only. The rest of the pupils must guess the correct answer. The student who knows the answer helps them by saying 'cold', 'getting warmer', 'hot' or 'correct'.</p>

### Answers

The temperature food should be chilled at: from 0 to 5 °C.

The temperature food should be frozen at: most commonly -18 °C, but different temperatures are possible from -12 °C to even -80 °C.

Body temperature: 36.6 °C.

Danger zone temperature: from 5 to 63 °C.

Boiling temperature: for water 100 °C, for most foods it's above that temperature.

Core temperature of cooked food: 75 °C.

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# Answer Cards

Cut these out and give one to each student in each group.

<p>✂</p> <p><b>What is the temperature food should be chilled at?</b></p> <p>From 0 to 8°C. But walk-in chillers can be set up to 8°C.</p>	<p><b>What is the temperature food should be frozen at?</b></p> <p>Most commonly -18°C. Some use temperatures from -20°C to -30°C.</p>
<p><b>What is body temperature?</b></p> <p>36.6°C.</p> <p>It provides perfect conditions for microorganisms' growth!</p>	<p><b>What is the danger zone temperature?</b></p> <p>From 5 to 63°C.</p> <p>Danger zone temperatures are the temperatures in which microorganisms grow fastest!</p>
<p><b>What is the temperature at which water boils?</b></p> <p>Water boils at 100°C.</p> <p>Other beverages and most foods will boil at different temperatures though!</p>	<p><b>What is the core temperature of food?</b></p> <p>75°C.</p> <p>It can be checked by using a probe.</p>

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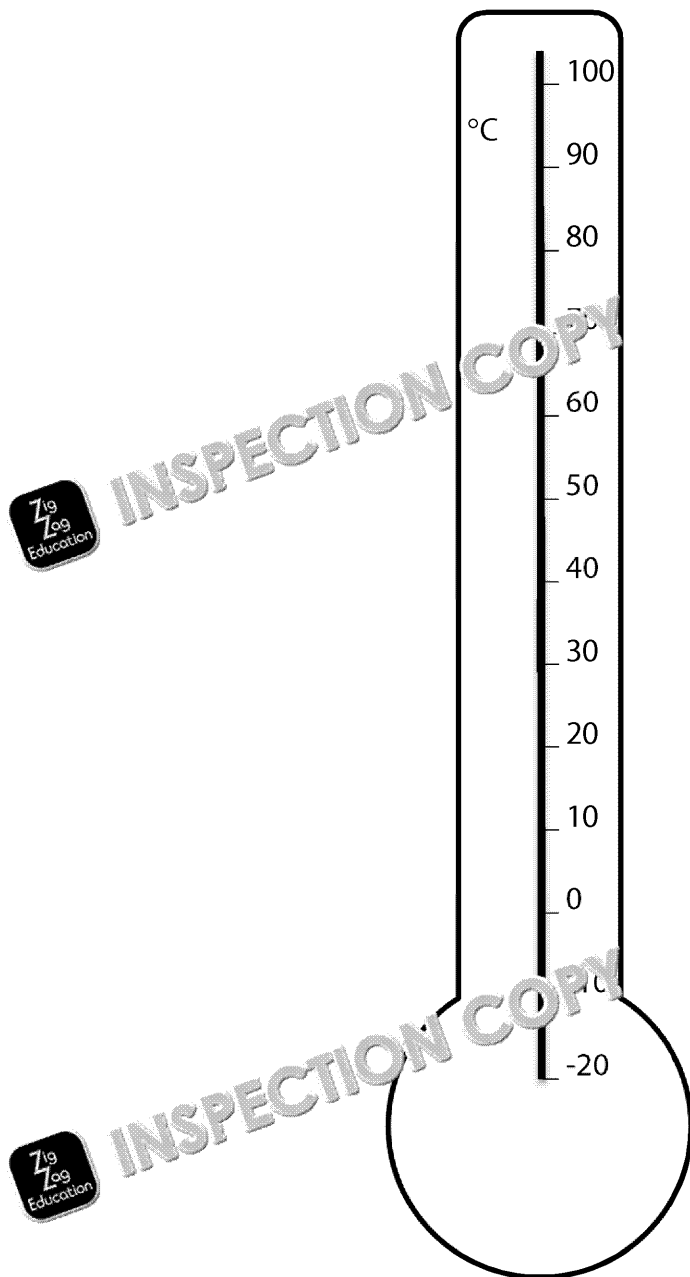


# Hot or Cold?

Microorganisms such as bacteria, mould and yeast need water, warmth, time and food to grow. In optimal conditions (best for growth) they are able to double in 20 minutes! This means that even if there is only one bacterium in food, under optimal conditions it will multiply – after 20 minutes there will be two bacteria, after 40 minutes – eight, and after only three hours – 512!

To control and prevent microorganisms' growth, you need to adjust or control the conditions. Water can be removed by drying, time can be limited by eating food soon after it is prepared, what about temperature?

Get into groups of six. Your teacher will give each of you a card with a question. In turns, you will have to ask the question to other students in your group and they will find the answer!



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# Activity 31 – Health and Safety Practices

## Teacher's Notes

Plenary activity: Charades	
<b>Aim of the activity</b>	To introduce and explain how to deal with food in a healthy and safe way, including cross-contamination, food poisoning and allergic reactions.
<b>Teacher's instructions</b>	Split the class into four groups. Copy the student's worksheet. Assign to each group one of the 4 Cs of food safety (i.e. chilling, contamination, cooking, cleaning). In each group, students should list health and safety tips to prevent food poisoning and prepare food in a safe way. In turns, students should demonstrate their ideas to other groups (allow them to use the board to make it easier).

## Answers

Some ideas for each field could include:

### chilling

- covering the food
- cooling the food completely before putting it into the fridge
- keeping raw meats on the bottom shelf of the fridge
- storing raw and cooked foods separately / on separate shelves
- controlling the temperature in the fridge

### cooking

- controlling the food's temperature with a food temperature probe
- using separate utensils for raw and cooked foods
- cooking food thoroughly
- thawing frozen foods completely before cooking
- checking that the food is cooked with a skewer, visual checks, food temperature

### cleaning

- sorting dishes into cleaner and dirtier before washing up
- washing the cleaner dishes first
- not putting knives into the sink
- disinfecting the kitchen counter with an antibacterial spray
- using hot, soapy water when washing up
- using only clean kitchen towels

### cross-contamination

- preparing high-risk foods separately
- using colour-coded utensils, knives, chopping boards)
- washing the utensils thoroughly after each use
- washing hands before and after dealing with a high-risk food

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# Handy Hygiene

When cooking, you not only need to know how to make a tasty dish, but also how to make it safe to eat. But how to do it? What do you have to remember? The 4Cs of food safety will help!

chilling



4 Cs  
of food safety

cleaning

Get into four groups. One for each C. In your group, think about what you can do to make food safe, hygienic way. But shhhh! Don't say it too loud! Play your ideas to your classmates without speaking!

My topic:

What can I do in this area to make food safe?



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# Activity 32 – Storage Conditions –

## Teacher's Notes

Plenary activity: Hot seat	
<b>Aim of the activity</b>	To recap information about correct food storage conditions.
<b>Teacher instructions</b>	<p>Ask students to place chairs in the middle of the class and you have one chair less than pupils).</p> <p>Play a timer for 10 seconds and ask students to dance around the room. When the timer stops, one student should take a seat. The one without a chair has to answer a question asked by one of the classmates about storage conditions. If the student answers correctly, they stay in the circle. If the student answers incorrectly, (s)he leaves the circle. After each round, one more student leaves the circle. There are always fewer chairs than students. The game ends when only one student is left.</p> <p>Ensure that there are no obstacles which could cause students to trip. Clear the room of tables and place them against the walls, ask students to place their chairs in the middle of the room. Remind students not to run or push each other, and to abide by the rules.</p>

## Answers

The questions asked by students should refer directly to different storage conditions. Each student has to answer one, two or more questions (e.g. lower-ability students may be asked fewer questions but higher-ability students may be asked to answer more).

Questions could include:

- Why do we have to cover food when storing it? (to prevent cross-contaminating foods, and to limit contact with air, as well as to prevent tainting – taking on other flavours)
- What is the correct temperature for storing food in a fridge? (from 0 to 5°C)
- What is the correct temperature for storing food in a freezer? (below -18°C)
- On which shelf of a fridge should we store raw chicken? (the bottom shelf)
- Why can some foods be stored in a cupboard? (because they have no water content)
- Why do some foods have to be preserved? (to kill microbes which could cause food poisoning)
- Why does food have to be stored in a 'cool, dry place'? (Bacteria need warm and moist conditions to grow. Lack of these features will disable the process.)
- Why on a carton of UHT milk does it say to 'refrigerate after opening'? (because once opened, bacteria can enter and cause spoilage)
- How is UHT milk produced to have such a long shelf life? (It is sterilised at a high temperature for a short time, which kills all bacteria and spores, so they cannot spoil it.)
- What is a shelf life? (It's the amount of time a food can be safely stored for, without losing its nutritional value, sensory characteristics or safety.)
- Name three methods of food preservation (e.g. canning, bottling, sterilising, freezing, pickling).
- Can bacteria actually help to preserve food? (Yes, probiotic bacteria are commonly used in the production of yogurts, cheeses and vegetables, e.g. sauerkraut.)
- Why are some foods packaged in dark-coloured glass? (to protect it from sunlight, which can cause spoilage)

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# Hot Seat

Storing food in correct conditions is very important to maintain its freshness, flavour, nutritional value and safety. But what ARE the correct conditions? Well, you're about to find out!

Ask all your classmates to put their chairs in the middle of the classroom and then remove one of them – there should be one chair less than all of you. Now your teacher will play some music for a short time – move around sensibly and when the music stops, take a seat! The person who doesn't manage to grab a chair, has to answer a question about food storage. If they answer correctly, they take the seat of the person who asked the question (and that person has to leave the game); if they answer incorrectly, they leave the game! After each round remove one chair. The game ends when there is only one student left!

## After the lesson...

List three things you learnt today.

1. ....
2. ....
3. ....

List two things you still need to learn about food storage.

1. ....
2. ....

List one thing that surprised you.

1. ....

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# Activity 33 – Food Preparation – Ready,

## Teacher's Notes

Starter activity: Spider diagram	
<b>Aim of the activity</b>	To help students understand the importance of <i>mise en place</i> when preparing food.
<b>Teacher's instructions</b>	<p>This activity needs to be carried out at the beginning of a practical session.</p> <p>Explain to students what they are going to cook today and hand out the student's worksheet accordingly to allow one per person.</p> <p>Allow students up to 10 minutes to complete the activity, and prepare their workstation.</p>

## Answers

Reasons why *mise en place* is important include:

- to have all ingredients, spices, herbs, condiments, utensils and tools at hand
- to save time
- to be able to follow the recipe/procedure
- to ensure that the proper amount of ingredients is used
- to make sure that you add salt (or any other ingredient) only once
- to make sure that raw ingredients are separate from those that don't need cooking
- to allow a smooth workflow
- to help to prevent unexpected incidents and mistakes, e.g. burning onions with vegetables

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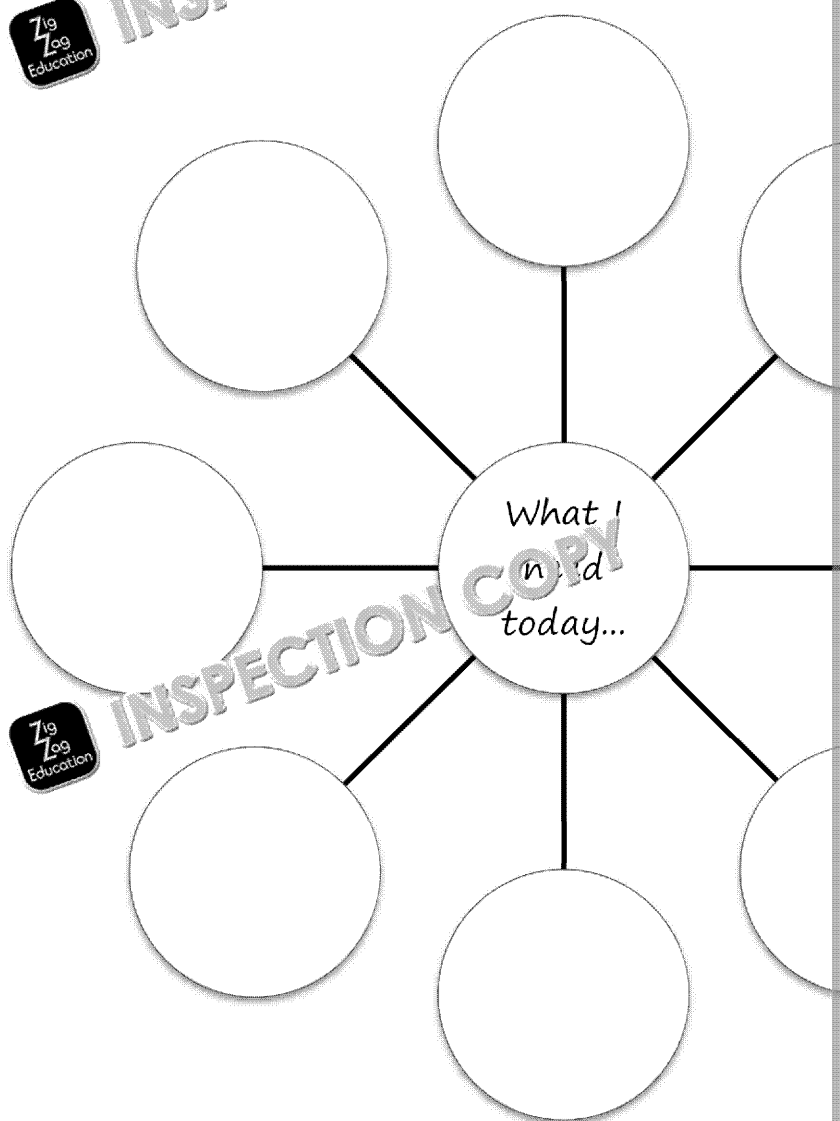
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# Ready, Steady, Draw!

Food lessons aren't all about theory. In fact, they are here to teach you how to cook healthy and tasty dishes to feed your family and friends!

Your teacher will tell you what you are cooking today – it is a good practice to read the recipe before you begin cooking – this is called mise en place. Read the recipe and draw a diagram below all the equipment and ingredients you're going to need! Make sure they are available in the class!



Don't forget to prepare all of the ingredients too!

Why do you think it is important to prepare everything before you start cooking?

1. ....
2. ....
3. ....



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# Activity 34 – Cooking of Food – Master

## Teacher's Notes

Starter activity: Complete the table	
<b>Aim of the activity</b>	To introduce various ways of food preparation and cooking to
<b>Teacher's instructions</b>	Split the class into pairs. Copy the student's worksheet according to the number of students. Give students 5 minutes to complete the table. Then, get the groups to share their findings with the class, and add even more cooking and preparation methods.

## Answers

Some ideas could include...

- **tomatoes** – raw in a salad or sandwich, stewed into ketchup or chutney,炒 into tomato sauce, tomato paste to spread on bread, grilled to serve as a side
- **strawberries** – raw in a drink or cocktail, in a milkshake, blended into a coulis, blended and frozen into a sorbet, stewed into jam or jelly, served with ice cream or freeze-dried
- **eggs** – fried, soft-boiled, hard-boiled, scrambled, omelette, cloud eggs, poached
- **bread** – in a sandwich, as croutons, as breadcrumbs, in a bread-and-butter pudding, hollowed out to serve a soup in
- **beef (meat)** – raw as carpaccio, stewed, grilled, roasted, simmered, fried, as mince
- **milk** – in custard, in rice pudding, in white sauce, to poach fish, in a potato masher, in milkshakes, to make ice cream
- **tuna** – fresh can be served with sushi, canned can be served in salads, tuna packed in oil can be served in a sandwich, steaks can be grilled, fried, steamed, poached

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# Master of Creation

Cooking food helps to kill dangerous bacteria, improve the texture and appearance, and prevent food spoilage. But it also helps to develop new flavours and increases the variety of the diet! Professional chefs often have to be very creative to ensure that their food is not only tasty, but also original and different from food offered by their competitors.

Get into pairs and think about different ways of preparing and cooking the following ingredients. For each ingredient list THREE different methods in which it can be prepared, cooked or served.

	Three ways to prepare, cook or
tomatoes	
strawberries	
eggs	
bread	
beef (meat)	
milk	
tuna	

Now boost your creativity even more. Swap your table with another group and try to think of different ways of preparing, cooking or serving the foods above!

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# Activity 35 - Jobs in the Food Industry - C

## Teacher's Notes

Starter activity: Rebus	
<b>Aim of the activity</b>	To introduce the variety of job roles and career paths within the food industry.
<b>Teacher's instructions</b>	Split the class into pairs. Copy the student's worksheet according to the number of pairs. Allow students up to 10 minutes to solve the puzzles, and then discuss their answers to the puzzles.

## Answers

### 1. Food scientist

[(door backwards) (where R equals F) + S + (cent + I) + list (minus the L)]

### 2. Waiter

[Waist (minus the S) + pear (minus P and minus A)]

### 3. Celebrity chef

[scale (minus the S) (where A equals E) + brick (where CK equals TY) + chef]

### 4. Restaurant manager

[store (minus STO) + star (where R equals UR) + man + age + R]

### 5. Food safety officer

[foot (where T equals D) + offer (plus IC inside)]

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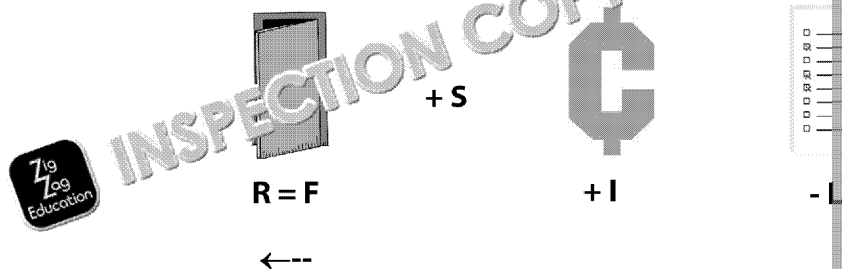


# Career Paths Rebus

The food industry is very broad and varied. There are thousands of people who work in the food industry to ensure everybody can access good, healthy and safe food. But who are they?

**Solve these rebus puzzles to find out!**

1.



**Answer:** .....

2.



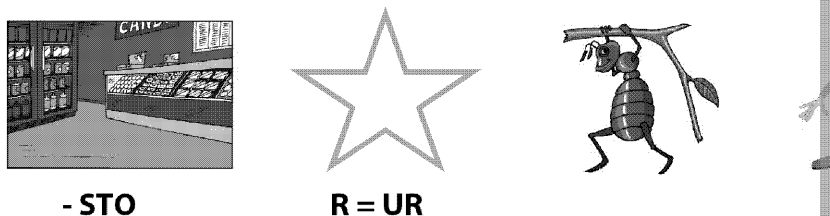
**Answer:** .....

3.



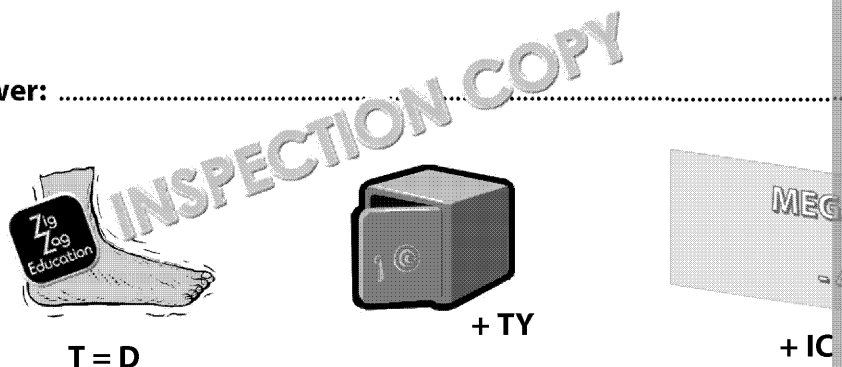
**Answer:** .....

4.



**Answer:** .....

5.



**Answer:** .....

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All done? Great! Now list five other job roles within the food industry. Or  
and create your own rebus puzzle for a classmate to solve!

1. ....
2. ....
3. ....
4. ....
5. ....



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(Fold the page here and cut so that your partner doesn't see the



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Answer:.....



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