



## Year 5 Food Technology

Basic cooking skills are required to make a dish.







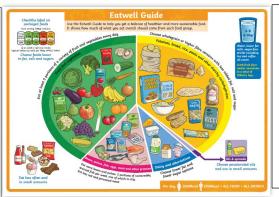








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reared.

Plants are grown.

The UK's healthy eating model is called The Eatwell Guide and it has five groups: Fruit & Vegetables, Fats. Proteins. Dairy and Carbohydrates.







### Where is my food from?

Once grown, reared or caught, food is processed to make it edible and safe. For example: milk is from a dairy cow; apple juice is from apples which grow on trees; a tomato is a fruit which grows on a plant mashed potato is made from potatoes (a plant) which grows under the ground; ham and bacon are made from pork which is the meat from a pig; toast is made from bread, bread is made from flour, flour is made from the plant called wheat (it is milled).









After cooking Wash equipment in warm water and washing up liquid and dry it thoroughly, Clean down surfaces. Put ingredients or food away, wrap, seal, refrigerate.

### Key Knowledge

Design-make-evaluate process

Bread is a staple food product eaten across the world.

Bread is one of the oldest known prepared foods.

Dough is a malleable paste made out of grains.

Gluten is a protein that allows bread to develop and create large pockets of air.

Resting allows to gluten to relax.

Leavening is the process of adding gas to the bread before or during baking so a lighter and more easily chewable bread is produced.

Bread can be leavened by adding chemicals such as baking powder. Bread can be leavened by using yeast.

Yeast are micro-organisms that ferment the carbohydrates in bread creating carbon dioxide. Proofing is the final rise of the bread before baking.

#### Nutrition

Bread is a good source of carbohydrates, protein, B vitamins and the minerals calcium and iron. wholemeal flour is also a very good source of dietary fibre.



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Health Benefits of Herbs

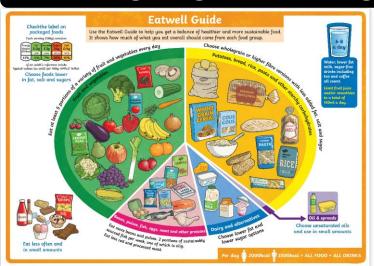
treating arthritis

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Reduce risk o

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### Year 6 Food Technology



Sources

Rice, potato,

wheat, sugar

Vitamins and minerals are needed for general good health.

Some have special jobs: vitamin A is needed for night vision: vitamin C is needed for the maintenance of healthy skin; iron is needed for healthy blood; calcium is needed for the growth and maintenance of strong bones and teeth.



Pasta and Pizza are popular foods from Italy. Flatbreads are cooked all over the world from Mexican tortillas to Indian chapatis. They are high in carbohydrates.





Function of Flour:

The structure of the

pastry. Soft, plain flour is

### Food is produced all around the world.

A lot of the food we eat is grown in the UK, but some food comes from other countries where the weather or seasons are different to ours.

Content source.

**UK** food



World food



### used for shortcrust pastry to give it a short crumb. Strong plain flour is used in choux and Flaky or puff pastry

as it contains more Gluten this is needed to make the dough and give the pastry elasticity.

#### Function of fat:

Fat shortens the mixture in shortcrust. It traps air between the layers in flaky Pastry. It adds colour and flavour.

#### Function of Water:

Binds dry ingredients together.

#### **Fats** Gives more energy Butter, ghee, (energy giving milk, cheese compared to carbohydrates food) Vitamins and Fruits and Required for normal Minerals vegetables growth and (protective food) development **Proteins** Milk, eggs, meat Helps in building (body building food) fish, soybean and repair of body

**Function** 

Provides energy

### Some of the food we eat is seasonal in the UK. This means it only grows at certain times of the

### Spring (March, April, May)

Name of the Nutrient

Carbohydrates

(energy giving

food)



# Summer

(June, July, August)



### Autumn

(September, October Nov



## Winter (December, January, February



### **Year 7 Food Technology**



8 tips for healthier eating

These eight practical tips cover the basics of healthy eating, and can help you make healthier choices.

- 1. Base your meals on starchy carbohydrates.
- 2. Eat lots of fruit and veg.
- Eat more fish including a portion of oily fish.
- 4. Cut down on saturated fat and sugar.
- 5. Eat less salt (max. 6g a day for adults).
- 6. Get active and be a healthy weight.
- 7. Don't get thirsty.
- 8. Don't skip breakfast.

### Foods high fat, salt and sugar

- Includes products such as chocolate, cakes, biscuits, fullsugar soft drinks, butter and ice cream.
- Are high in fat, sugar and energy and are not needed in the diet.
- If included, should be had infrequently and in small amounts.

### Composite/combination food

Much of the food people eat is in the form of dishes or meals with more than one kind of food component in them. For example, pizzas, casseroles, spaghetti bolognese and sandwiches are all made with ingredients from more than one food group. These are often called 'combination' or 'composite' foods.

### Food labelling

Information on the labels of pre-packed food and drink products can be legally required or just for consumer information.

Legally required information:

country of origin and place of provenance; date mark:

list of ingredients (including additives and allergens); name and address of the manufacturer, packer or seller; name of food or drink; nutrition information; storage and preparation instructions; weight or volume.

Consumer information:

front-of-pack nutrition labe Check how much fat, sugar and salt is in your food serving suggestions/image.





# Food needs to be stored properly and within its date mark.

**USE BY:** 

25/08/20

KEEP REFRIGERATED **BEST BEFORE:** 

25/08/21

STORE IN A COOL DRY PLACE

#### Why food is cooked:

- 1. To make it safe to eat
- To improve the shelf life
- To develop flavour
- To improve texture
- 5. To give variety

#### Methods of heat transfer

<u>Convection</u> - when the environment (air, water or oil) is heated up.

e.g. - baking a cake - boiling an egg

<u>Conduction -</u> when heat is transferred directly. e.g. - frying an egg

Radiation - when heat radiates e.g. - toast

#### **Hygiene rules**

Wash hands! Tie hair up Wear apron
No false nails or nail varnish
Antibacterial spray on surfaces before & after cooking

# Potatoes, bread, rice, pasta or other starchy carbohydrates

- Base meals around starchy carbohydrate food.
- This group should make up just over a third of the diet.
- Choose higher-fibre, wholegrain varieties.

### Year 8 Food Technology



Food skill		Food skill		Food skill	
Bake	旹	Fry and sauté	~	Portion / divide	C
Beat	P	Glaze and coalt	1	Prove	<b>(</b>
Blitz, puree and blend		Grate		Roast	<b>-</b>
Casserole	1	Grill		Roll-out	
Chill	攀	Juice		Rub-in	
Core		Knead	Se-	Sift	9
Cream	9	Layer		Snip	8
Crush	<b>–</b>	Mash	<u></u>	Spread	R
Cut out	Ω° O	Measure		Stir-try	<b>O</b>
Cut, chop, slice, dice and trim	8	Melt, simmer and boil	<b>-</b>	Weigh	
Decorate and garnish		Microwave		Whisk	
Drain	· <b>'</b> '	Mix, stir and combine		Zest	

High risk food Bacteria easily multiply on foods known as 'high-risk food'. These are often high in protein or fat, such as cooked meat and fish dairy foods and eggs. Cooked pasta and rice are also regarded as high risk foods if they are not cooled quickly after cooking and

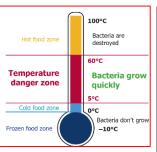
stored below 5°C

What are raising agents? Raising agents include anything that causes rising within foods,

and are used when making baked goods including cakes, bread and meringues.

What is aeration? The definition of aeration means 'the introduction of air into a

material'. The process of adding air to food by using a raising agent is called 'aeration'



### Symptoms of food poisoning

The symptoms of food poisoning include: nausea: vomiting; stomach pains; diarrhoea.

Food skills	<u>Techniques</u>			
Knife skills - Chopping	Bridge hold, claw grip, slice, dice, julienne, baton's, meat and vegetable			
	preparation			
Organisation / tidying	Being able to work hygienically and safely to produce recipes and ensure			
skills	all equipment, utensils and work area is fully clear and tidy. Teamwork and			
	communication. Following personal hygiene rules.			
Food safety	Using food probes for meat to check for safe temperatures (75C)			
Weighing and measuring	Demonstrating accurate measurement of liquids and solids. Being able to			
	use both manual and digital scales.			
Use of equipment	Oven, hob, chopping boards, knives, sieve, mixing bowl, measuring			
	jug/spoons			
Making sauces	Reduced sauce, roux sauce			
Working with ingredients	Using a range of ingredients from the Eatwell Guide to create recipes.			
Test for readiness	Using a knife/skewer, finger or poke test, bite or visual colour check to			
	establish whether a recipe or ingredient is ready.			
Adapting recipes	Using a nutritional analysis program to analyse recipes. Making			
	adaptations to make the recipe better suit the Eatwell Guide / healthy			
	eating requirements.			
Judge and manipulate	Demonstrate how to taste and season during cooking. Self-evaluation of			
sensory properties	practical dishes made.			
Food science	Learning how foods react with heat and acid and adapt accordingly.			
Cooking methods	Using a variety of cooking methods including conduction, convection and			
	radiation.			
Food styling	Quality and creative presentation techniques. Using garnishes and			
	decorative techniques where possible.			

### Bacterial growth and multiplication All bacteria, including those that are

harmful, have four requirements to survive and grow:

Functional characteristics of ingredients

Ingredients provide a variety of functions in

recipes, such as: browning, e.g. flour in a bread

raising, e.g. yeast in bread (aeration); setting,

e.g. scrambled eggs (coagulation); thickening,

e.g. flour in a roux sauce (gelatinisation).

food:

moisture:

roll (dextrinisation);

warmth:

time.



### Seasonality

Fruit and vegetables naturally grow in cycles and ripen during a certain season each year. Some meat and fish can also be seasonal. Advantages of buying food in season include:

- it is fresh:
- best flavour, colour and texture;
- optimal nutritional value;
- supports local growers;
- lower cost:
- reduced energy needed to transport.

Avoid cross contamination





#### Hygiene rules - meats