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Basic cooking skills are The UK's healthy Key Knowledge required to make a dish. eating model is Design-make-evaluate process Grate Mix called The Eatwell Guide and it has Bread is a staple food product eaten **Claw grip** five groups: Fruit across the world. & Vegetables, Bread is one of the oldest known Peel Snip Fats. Proteins. prepared foods. Dairy and Dough is a malleable paste made out of Carbohydrates. grains. **Bridge hold** Gluten is a protein that allows bread to Spoon Spread develop and create large pockets of EANING Fish and shellfish COOTIN Animals are Plants are grown. air. reared. are caught. Resting allows to gluten to relax. Leavening is the process of adding gas The 4 C's of food safety Whisk Thread to the bread before or during baking so a lighter and more easily chewable CHILLING bread is produced. Bread can be leavened by adding chemicals such as baking powder. FOOD a fact of life Where is my food from? Bread can be leavened by using yeast. Once grown, reared or caught, food is processed to make it edible and safe. For Yeast are micro-organisms that example: milk is from a dairy cow; apple juice is Tie back long hair ferment the carbohydrates in bread from apples which grow on trees; creating carbon dioxide. Roll up long sleeves a tomato is a fruit which grows on a plant Proofing is the final rise of the bread After cooking mashed potato is made from potatoes (a plant) Wash equipment in before baking. Near an apror which grows under the ground; ham and bacon warm water and are made from pork which is the meat from a washing up liquid Nutrition Remove N pig; toast is made from bread, bread is made jewellery and dry it from flour, flour is made from the plant called Bread is a good source of thoroughly, Clean Wash your hands wheat (it is milled). carbohydrates, protein, B vitamins and down surfaces. Put ingredients the minerals calcium and iron, Get ingredients ready or food away, wrap, wholemeal flour is also a very good seal, refrigerate. Get equipment ready source of dietary fibre.

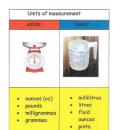
Year 5 Food Technology



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.



Health Benefits Of Spices Has anti-inflammator Acts as antioxidant Helpful in boosting Helps improve s and hair Helps control dig ents allergies and help Fights infectio

Function of Flour:

The structure of the pastry. Soft, plain flour is 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.

Name of the Nutrient	Sources	Function	
Carbohydrates (energy giving food)	Rice, potato, wheat, sugar	Provides energy	Grains
Fats (energy giving food)	Butter, ghee, milk, cheese	Gives more energy compared to carbohydrates	
Vitamins and Minerals (protective food)	Fruits and vegetables	Required for normal growth and development	
Proteins (body building food)	Milk, eggs, meat, fish, soybean	Helps in building and repair of body	

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.





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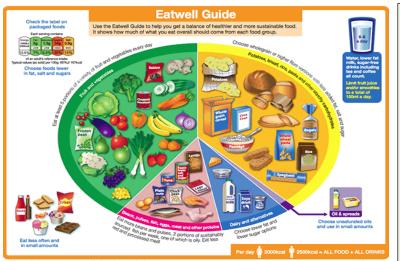


World food



Some of the food we eat is seasonal in the UK. This means it only arows at certain times of the Autumn Spring Summer Winter (March, April, May) (June, July, August) (September, (December, January, October Nov February





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.

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.
- 3. 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.

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 price; serving suggestions/image.



<u>_</u>						
E	Check how r fat, sugar ar is in your for	nd salt od Wha HI	GH 15a	s Fat	Saturates	
	Remember that the amount you eat of a particular food	Wha	1009 It is IM 1009 150	3g 20g	1.5g 5g	0.3g 15g
	affects how much sugars, fat, saturates and salt you will get from it.	Wha LC	t is W and below	3g and below	1.5g and below	0.3g

Year 7 Food Technology

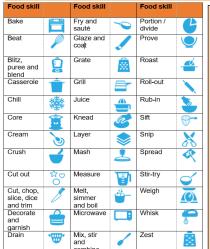
Food needs to be stored properly and within its date mark. USE BY: **BEST BEFORE:** 25/08/20 25/08/21 **KEEP STORE IN A** REFRIGERATED COOL DRY PLACE Why food is cooked: 1. To make it safe to eat 2. To improve the shelf life 3. To develop flavour 4. To improve texture 5. To give variety Methods of heat transfer Convection - when the environment (air, water or oil) is heated up. e.g. - baking a cake boiling an egg Conduction - 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





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 $% \left({{\left[{{{\left[{{{\left[{{{c_{a}}} \right]}} \right]}} \right]}_{a}}} \right)$

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

1	.00°C
	Bacteria are destroyed
	o°c Bacteria grow quickly °c
	°C
	Bacteria don't grow -10°C
	6

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

Bacterial growth and multiplication All bacteria, including those that are harmful, have four requirements to

survive and grow: <

- food;
- moisture;
 warmth;
- warmt
- time.



Functional characteristics of ingredients Ingredients provide a variety of functions in recipes, such as: browning, e.g. flour in a bread roll (dextrinisation);

raising, e.g. yeast in bread (aeration); setting, e.g. scrambled eggs (coagulation); thickening, e.g. flour in a roux sauce (gelatinisation).

Food skills	Techniques		
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 ar		
	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.		

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.



<u>Hygiene rules - meats</u>



Tie hair up Wear apron Wash hands! Coloured chopping boards No false nails or nail varnish Cleaning surfaces before & after cooking Avoid cross contamination