

GCSE Food Preparation & Nutrition Wheat- Bread

Bread is staple food in the UK. There are many varieties of bread; wholemeal, granary, white, spelt, soda and rye. They can be shaped in a variety of ways. Bread dough can be enriched with ingredients such as dried fruit, sugar, milk, butter and eggs to produce baked items like buns and pastries. Bread is a relatively low cost food, extremely versatile and relatively easy to make yourself.

Food Science

Sifting the flour: the sifting process introduces air which acts as a raising agent and helps the bread to rise in the oven.

Adding warm liquid Water hydrates the flour. At 37°C the liquid provides the optimum temperature for the yeast to ferment and produce the raising agent C02. Moisture is needed for a soft dough. Sugars are produced by this fermentation which the yeast consumes. As it does so it creates alcohol and carbon dioxide gas as a waste products. **Mixing and Kneading Dough** during the mixing and kneading, two of the proteins present in the flour (gliadin and glutenin) become hydrated and when the dough is kneaded an elastic protein complex called gluten is formed. This gluten gives bread its structure and prevents it collapsing.

Proving Dough during this step some of the starch present in flour is broken down and is fermented by the yeast . C02 gas is produced which causes the gluten network to expand and therefore makes the dough rise; the quality of the gluten is important if its too weak bubbles can burst causing lack of volume, if it's too strong the dough won't stretch enough.

'Knocking back' proved dough, the dough is 'knocked back' to remove the large C02 bubbles produced by the yeast. This ensures a more even texture and a better rise. Large bubbles of gas would make large holes in the finished bread.

Baking, the bread dough rises as the CO2 produced by fermentation of yeast expands with heat. Yeast activity increases at first, but as the temperature of the dough rises it slows down until eventually the heat will kill the yeast. The water is absorbed by the starch granules in the flour, the starch grains swell and gelatinise this supports the firm structure of the loaf. A gluten network forms a sort of skeleton which traps the CO2 gas. During baking the gluten strands are stretched as the CO2 gas expands, this together with the coagulation of the gluten protein results in the finished bread structure.

Functions of Bread ingredients



Yeast: Raising agent: Is a living micro organism. When it's the ideal conditions for growth, it respires and produces carbon dioxide. Ideal conditions for growth are: Warmth, moisture, food and time.

Liquid: Moisture: it helps to create the right conditions for the yeast to grow. It also hydrates the flour, helping with gluten formation.

Salt: Structure: helps with gluten formation Taste: a small amount improves the flavour of the bread.

Too much: will prevent the yeast from fermenting

Flour: Bulk: it gives bulk to the bread. Taste: Different types of flour affect the flavour. Absorbs moisture flour can absorb a lot of water to make a dough Strong flour has a higher protein content so will produce a good quality loaf without it collapsing

Nutrients provides starchy carbohydrates, protein and is fortified with vitamins and minerals.

Nutritional Value of Bread:

Bread is a good source of starchy carbohydrate, protein, B vitamins, calcium and iron. Bread which is made with wholemeal flour is also a good source of dietary fibre.

Other ingredients in bread making

Fat: fat allows the other ingredients to slide over each other so the bread can rise.

Shortening – fat coats the particles of flour and stops it absorbing water, so only a small amount should be used.

Taste: Enhances the flavour. Shelf Life: fat improves the texture of the bread, keeping it moist and preventing it from going stale quickly.

Sugar: Food for the yeast: sugar provides

food energy for the yeast so that they can respire and grow.

Other ingredients in bread making

Browning: sugar turns to caramel when it's cooked and makes the crust brown. Taste: Sugar adds sweetness to the bread. Ascorbic Acid: Added mainly in the commercial manufacture of bread, it speeds up time it takes to make the bread.

Additional learning and challenge activities

- · What does the term 'enriched dough' mean?
- List the key stages for traditional bread making Describe the difference between making bread using the bulk fermentation and the Chorleywood process.
- List the four ideal conditions needed for yeast to respire and produce carbon dioxide.
- Name the gas produced by the fermentation of yeast.
- Why is the formation of the protein gluten important in bread making?
- What does h term 'knocking back' mean and why is it necessary?











GCSE FOOD PREPARATION AND NUTRITION: Fruit and vegetable commodity group



GCSE Food Preparation & Nutrition *Fruit and Vegetables*

Potatoes: A staple food in the UK. The part of the potato we eat is called the Tuber. They come in a variety of colours but we are most familiar with the red and white varieties. The most common potatoes we eat in the UK are Maris Piper, King Edwards and Desiree. Sweet potatoes are also popular and are a common alternative to traditional potatoes.

Different varieties of potatoes have different textures. Some can be floury, sticky and waxy or granular. This is due to the potato cell changing during cooking.

All potatoes have the same structure. The outer layer is the skin, the fesh is the area under the skin. The pitch is the watery core.

They can be cooked in a variety of ways including, boiling, roasting, baking and frying.Good source of vitamin C , complex carbohydrates (starch) and a small amount of B vitamins. They also contain water.

Vegetables are categorised according to the part of the plant they represent. They can be grown above or below the ground.

Group	Examples	Above or below
Roots	Beetroot, Carrots, swede	Below
Bulbs	Onions, leeks, spring onions	Below
Tubers	Potatoes, sweet potatoes, yams	Below
Stems	Asparagus, celery	Above
Leaves	Cabbage,brussel sprouts	Above
Flowers	Cauliflower, broccoli	Above
Fruits and seeds	Peas, courgettes, aubergine	Above
Fungi	mushrooms	Above

Storage of potatoes

Stored in cool, dry and dark places Such as hessian bags, racks or paper bags Left in the light they will turn green - the green part is toxic

Not in plastic bags as they will sweat and rot Storing in the fridge can affect the taste and cause discolouration

We are encouraged to eat a wide variety. Eaten as part of a main meal or a snack. Can be eaten raw. Cooking destroys some of the nutritional value. The eatwell guide suggests a third of our diet is made up of fruits and vegetables. They are a good source of carbohydrates, fibre vitamins and minerals and are low fat.

Vegetable Structure

The structure of vegetables is a collection of cells made of cellulose. The type of vegetable and its age can mean that the structure varies. Vegetable cells contain high amounts of water and this keeps the vegetable form (e.g. cucumber 70% water) . If they start to lose water the cells lose their firmness and they become limp and flabby.

Vegetable Storage Salad and some green vegetables can be stored in the fridge to keep them fresh Most other vegetables should be stored in cool, dry, well ventilated areas. Most vegetables should be eaten as soon as they are purchased to avoid nutrient and flayour loses. Ripened fruits are more attractive to eat. They will change in colour, texture and taste (sweeter) when they ripen.

Fruit

There is a vast array of fruits available to eat in the UK. These may be home grown or imported. Many fruits are seasonal (the times of the year when the food is at its peak, in terms of harvest, flavour or cost)

There are four main groups of fruit.Some fruits (bananas, pineapple, mango) do not fit into any of the categories and tend to be sold as exctic or tropical fruits.

Group	Examples	Storage
Citrus	Oranges, lemons, limes, grapefruits	Cool, dry place
Hard	Apples, pears	Room temperture, do not refridgerate
Soft or Berry	Strawberries, raspberries, blackberries	fridge
Stone	Plums, cherries,peaches	Fridge. Room temperature for faster rippening.





GCSE Food Preparation & Nutrition Milk, Cheese and Yoghurt

MILK

Cow's milk is the dominant milk drank in the uk. Alternative include goats milk and soya milk.

Milk contains bacteria - it must be heated to destroy the bacteria to make it safe to drink. This makes it last longer too. Milk can be pasteurised.HTST - High temperature short time. Heated to 72 degrees for 15 seconds. Then cooled rapidly and bottled.UHT ultra heat treatment - heated for 1 second to 132 degrees. Makes milk sterile (no bateria). Rapidly cooled and packaged. Lasts longer than pasteurised milk.

Туре	Details
Whole	3.9 % full fat. Blue cap. Recommended for children
Semi-skimmed	1.7% fat. Half fat. Green cap
skimmed	0.1-0.3% fat. Red cap
Evaporated	Concentrated, sterilised and canned. Reduced liquid content - thicker
Condensed	As condensed but with sugar added - helps to preserve the milk
Dried milk powder	Water removed to dry. Water added then can be used and stored as fresh milk
Alternative	Dairy free - soya, almond, oat and rice
	rovides many nutrients - the only food needed mmals) for the first few weeks of life.

Storage Perishable - refrigerated and away from strong smelling foods.

Cheese can be described as solid or semi-solid (soft cheese\) milk. Can be referred to as fermented dairy food.

CHEESE

Туре	Examples	Fat - Saturated. High content depending on milk used
Hard pressed	Cheddar, leicester	Minerals - calcium, phosphorus, sodium Vitamins - A, D and B some C
Soft (or ripened)	Camembert, brie, goats	Uses: flavour, colour, texture and increased
unrippeded	Cottage cheese, cream cheese, mascarpone	nutritional value
Blue veined	Stilton, danish blue	Storage Refrigerate between 0-5 degrees. Soft cheese use within
processed	cheese slices and spreads	a few days. Hard cheese last longer. Airtight box - prevents
		drying out /

YOGHURT

Protein - HBV Fat - Saturated. High content depending on milk used Minerals - calcium, phosphorus, sodium Vitamins - A, D and B some C

The bacteria convert the lactose (milk sugar) to lactic acid, which thickens the milk and gives it the tangy taste characteristic of yogurt. The yogurt is then cooled and can be flavoured with fruit, sugar, other sweeteners or flavourings. Stabilizers, such as gelatin, may also be added

Protein - HBV

Yighurt is made from different types of milk. Some yoghurts contain other ingredienmts to flavour them sich as sugar and fruit. Set yogjhurt - firm texture - set in pot it is served in Love voghurt - fermented with live culture bacteria - still living]greek (strained) yoghurt - cows or ewes milk- thick and high in fayt.

> Storage Refrigerate between 0-5 degrees. Eat within use by date.



GCSE FOOD PREPARATION AND NUTRITION: Meat commodity group



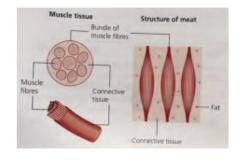
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There are 3 animals we generally eat in the uK - pigs, sheep and cows.

Meat is made up of protein, water and fat.

Fat in meat is either visible (seen around the edge) or invisible (in the connective tissue)

Beef, veal	Steaks - sirloin, fillet, rump Joints - topside, brisket, silverside Cuts - skirt, chuck, minced	Crus as Greet See C
Lamb, mutton	Steaks - shoulder, fillet, Joints - leg, saddle, neck Cuts - chump, loin., noisettes, minced	
Pork, bacon, gammon and ham	Steaks -shoulder, loin Joints - spare rib, leg, shoulder, loin Cuts - belly, chops	ear bar Rad- Tonse



Protein - HBV Fat - Saturated Minerals - iron Vitamins - (fat soluble) A, D and B Water - high volume content.

Cooked for: kill bacteria, flavour, to make tender, to make more appealing, to make nutrients more digestible

Storage Meat is a high risk food, it must be cooked and stored correctly to avoid food poisoning. Raw meat should be refrigerated, cooked meat covered and refrigerated

Raw meat = muscle + connective tissue + fat.

The muscles are bundles of fibre which are surround and held together with connective tissue. These muscle fibres can be different lengths depending on the part of the animal they are from.part of the animal that does a lot of work such as the leg have longer fibres and can be tougher. Cooking is used to make the meat tender. The fibres contain water and mineral salts. Digestible - some foods are broken down more easily by the body (by the action of enzymes)than others. Meat needs to be cooked to make it more digestible. They are broken down into macronutrients and micronutrients and absorbed through the wall of the intestines.

FISH

Fish is made up of protein, water, minerals and fat.

Туре	Examples
White fish	Sole, halibut, trout, tuna
oily	Mackerel, salmon, trout
shellfish	Crabs, lobster, prawns

Fish Flesh = muscle + connective tissue. Fish muscle has short fibres and the connective tissue is very thin, this means that fish can be cooked quickly and still be tender and moist. Cuts - whole, fillet, goujons, steaks

High in Protein - HBV

Low in Fat , good source of fatty acids Minerals - calcium if bones are eaten - sardines Vitamins - A, D Shellfish can be high in cholesterol

Storage

Spoil quickly - eat same day or quickly afetr can be unsafe to eat after longer Refrigerate between 0-5 degrees.



GCSE FOOD PREPARATION AND NUTRITION: Eggs and poultry commodity group



EGGS Eggs are produced by hens, ducks, quails and geese. The most popular are hen (chicken) eggs. Eggs can be brought in 4 different sizes; small, medium, large and extra large. Anatomy of an Egg Egg Nutrition Cooked by: OLITICE. MEMORY boiling, NACE MEMORY frying, poaching, scrambling Structure: Yolk White 10% shell, 30% yolk, 60% white 0 q Fat 4.5 g Fat Sat. Fat Sat. Fat 0 q Storage 1.6 g Cholesterol 0 mg Cholesterol 184 mg Away from strong smelling foods as Carbohydrates 0.5 g Carbohydrates 0 g they are porous (contains tiny Protein 2.5 g Protein 4 g holes) and will absorb strong odours. Consume by usebydate.

Label	Pasture Raised	Certified Organic	Free Range	Cage Free	Conventional
Living Space	Natural fields or pasture, most space for natural behaviors	Aviaries/barns without cages, space varies, buy local when possible		Aviaries/barns without cages but very crowded	Grouped in small cages with little room to move
Outdoor Access	Live outside with access to barn	Required but not regulated	Limited and not regulated	None	None
Diet & Feed	Natural foraging, feed varies from farm to farm	Organic vegetarian, pesticide-free and non-GMO		Typical chicken feed	Grain-based, fortified, basic needs met in cheapest way possible
ormones & Antibiotics	Less common, less necessary	None		Common practice	Common practice
Nutritional Value of Eggs	Most nutritious	More nutritious than conventional		Similar to conventional	Least nutritious

Protein - HBV
white and yolk
Fat -
Saturated in
the yolk
Minerals -
iron
Vitamins - (fat
soluble) A, D
and E in yolk.
B in the egg
white.
Water - in
white and
yolk.
- 2207.0X

Chicken is the most popular poultry used There is also duck, turkey, goose, guinea pigeon.	in the uk. a fowl and

Chicken	Most popular, large bird, sold whole or jointed into legs, wings, breast and legs.
Turkey	Similar to chicken but larger. Associated with christmas
Duck and goose	Richer tasting birds, fatty in comparsion

Poultry = muscle + connective tissue.

Breast is softer than the legs that can be tough (hardest working part of the bird) older birds are tougher than younger birds which tend to be tender. Nutritional value varies according to the age of the bird, how it is reared and the parts eaten.

High in Protein - HBV Lower in Fat than meat , saturated Minerals - calcium if bones are eaten - sardines Vitamins - good source of B, some A and D

Storage

High risk food, it must be cooked and stored correctly to avoid food poisoning. Should be refrigerated, thawed and cooked thoroughly to kill bacteria.





Soya and Tofu	Tofu can be called bean curd. Made from fresh soya
Soya comes from the soya bean pod. Part of the legum family. Beans, peas and lentils are also part of this family.	milk, that has been curdled and pressed into a block
Soya can be processed into many different forms - milk, sauce, paste, flour tempeh. can be bought dried, canner or fresh in the form of desserts, yoghurts and margarines. Contains Fibre, HBV proteir and magnesium.	Bland tasting so needs to be favoured. Contains HBV protein, iron, calcium and other minerals. Some B vitamins. Bland tasting so needs to be favoured. Contains HBV protein, iron, calcium and other minerals.
pulses. a pod. Most popular bean is the ba	Image: seeds constrained to as Pulses are edible seeds that grow in the seeds that

- Used as topping on food •
- •
- •
- Provide essential fatty acids •
- Provide iron and zinc
- Vitamins B and E
- Need to be stored in air tight containers in a cool dry place. ٠



frozen freezer Airtight, cool dry place dried cool dry place canned

storage

fridge

High in protein and fibre , some carbohydrates, calcium and B

the nutritional value.

vitamins.

bean

fresh

- Roasted or toasted to add texture and flavou •
- Ground to add flavour
- Used to manufacture oil •
- Provide protein





GCSE Food Preparation & Nutrition Butters,Oils, Sugars and Syrup

Butters

Butter is the dairy product made from churning milk or cream. The chuming process separates the butterfat (the solids) from the buttermilk (the liquid). The butter we most often buy is made from cow's milk, although other varieties — made from the milk of sheep, goat, yak, or buffalo — are also available.Butter comes in salted and unsalted varieties.

Uses:

Melting - pouring over vegetables Spreading - crackers and sandwiches to avoid moisture Creaming - making cakes Shallowing frying - eggs Shortening - rubbing in to make pastry

Nutrients:

High in fat Vitamins A and D Sodium - salt **Storage:** Kept in fridge Away from strong odours Fully covered or can go rancid if left open to the air.

Oils

Oils are liquid at room temperature. They are lighter than solid fat such as butter and easier to digest.

Vegetable oils are natural oils found in seeds, nuts and fruit. Examples include sunflower oil, sesame oil, rapeseed oil and olive oil. Oils are used for frying, basting, marinating and dressings. The main nutrient found in oils is fat, this is an unsaturated fat and considered healthier than saturated fats. Oils should be stored in cool, dry places.

Margarine

Margarine was introduced as an inexpensive alternative to butter. It was made from vegetable oils and is **fortified with vitamins A and D**. Margarine is sold in solid block or as a soft margarine in a tub. **Uses:**

Block margarine is used for baking. Soft margarine is used for baking and frying and for spreading when making sandwiches.

Some soft margarines have a very low fat content so no suitable for making cakes, pastries and biscuits. High in fat. Provide vitamins A and D, water and minerals such as sodium (salt).

Sugars

- Comes from sugar cane (a tall grass grown in hot climates)or sugar beet (a root crop similar to parsnip grown in climates with warm and cold seasons)
- Pure carbohydrate give quick release energy. Provides empty calories as does not provide other nutrients
- Primary function in cooking is to provide sweetness. Can provide colour and crunch to some dishes

Туре	Description	Uses
granulated	White, coarse, small crystals	Sweetening- drinks, cereals,
caster	White, made from ground granulated sugar, finer crystals	Cake making - victoria sandwich cake
icing	White, made from ground granulated sugar, fine powder	Decorating - cakes, making icing
demerara	Pale brown, made from raw sugar,larger coarse crystals than granulated sugar	Adding crunch - flapjacks
Soft brown	Small sugar crystals containing molasses, a dark syrup.	Flavour in cakes - christmas cake

Syrups

Golden syrup is the most familiar Bought in various forms - jar can- squeezy bottle. Very sweet.

Black treacle is also a syrup, much darker in colour and thicker with a stronger flavour Black treacle is used for making christmas cake, gingerbread and some curry sauces.

Best stored in cool, dry places and used within three months of opening **Golden syrup** or light treacle is a thick, amber-coloured form of inverted sugar syrup made in the process of refining sugar cane or sugar beet juice into sugar, or by treatment of a sugar solution with acid. It is essentially white sugar/sucrose in a different form. This has been inverted, meaning that the sucrose has been broken down into two simpler sugars, fructose and glucose. The fructose content gives a heightened perception of sweetness so that, 25% less golden syrup can be used than granulated white sugar.

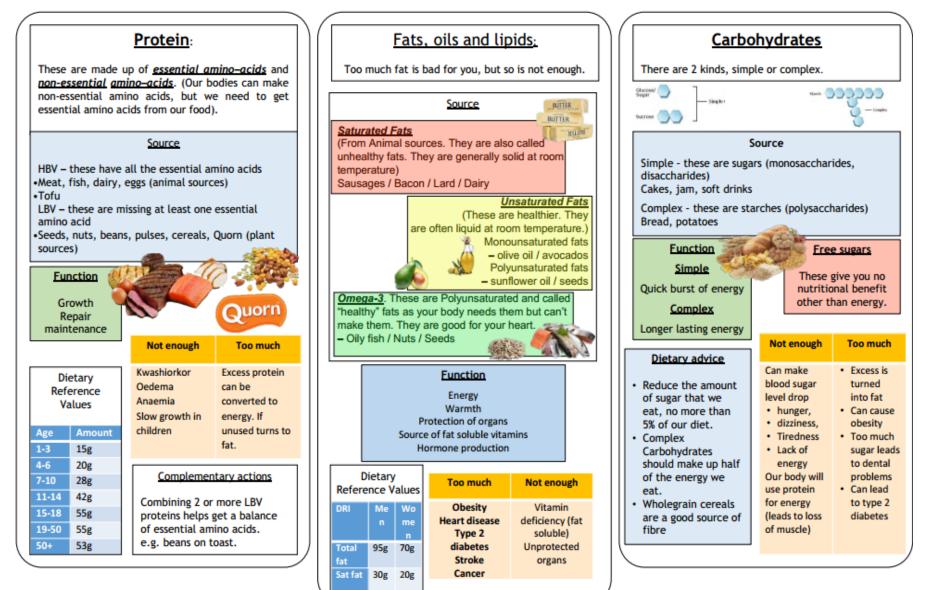
A British tablespoon of golden syrup contains about 60 calories, whereas a British tablespoon of white sugar is about 50 calories. By volume, golden syrup has more calories: by weight sugar has more calories.Golden syrup and white sugar have a very similar glycaemic value, meaning that the body processes both at about the same rate.





Macronutrients

Macronutrients are needed in large amounts to make the body function properly.







Micronutrients

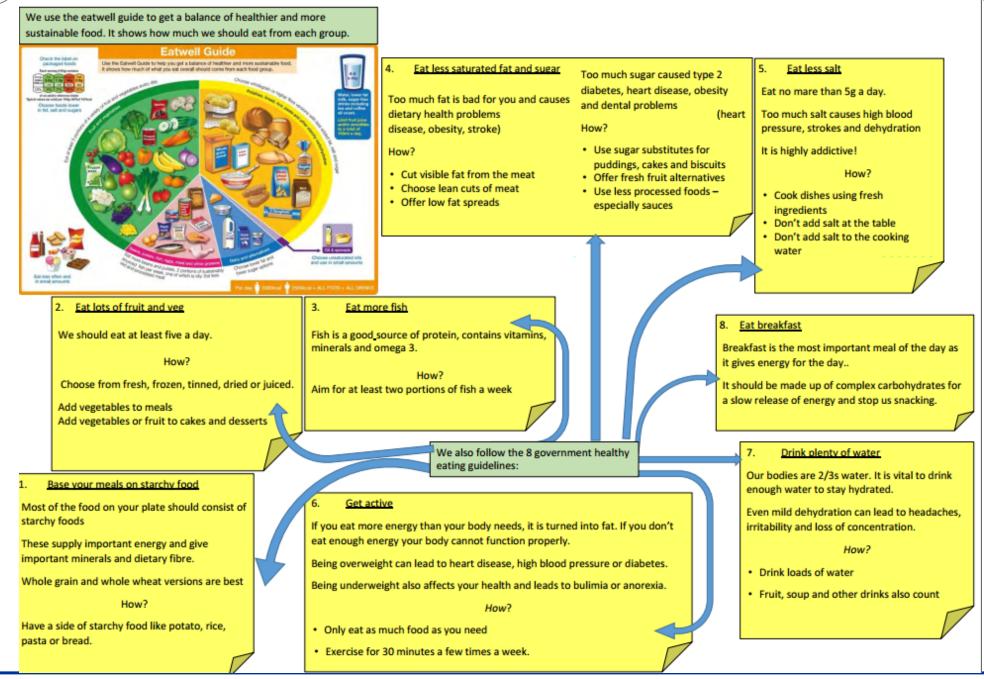
Micronutrients are needed in small amounts to make the body function properly.

●He	have different f	ease energy	enerally		linerals	Min help chemical re	erals eactions in our	body.		Trace e	Irace	Elements mical reactions	in our	
●Ke	event some dise ep the body he					Source	Function	Deficiency			Source	Function	Deficiency	
	pair cells			Cal	cium	Dairy, green leafy veg, bread	Strong bones	Weak bones, rickets and		Fluoride	Fish, toothpaste	Strengthens teeth	Weak teeth Complication	
vitami	le vitamins: in A, and amin D	Water soluble vitamins:	vitamin C	Iron	n	Meat, green leafy veg	Red bold cells	osteoporosis Anaemia		lodine	Seafood and dairy	Hormone development	s in unborn babies	
	eed to be very day as	 Not stored so need to To maximis 	be eaten	Pot	assium	Fruit and veg	Heart health	Bad for your heart						
the bod them in	ly can store the liver ty tissues.	and preven	t loss, steam boil the food,	Ma	gnesiu	Green leafy veg	Release energy and bone health	Nausea			Fit bre is also known non-soluble polys			
	n cause us	 Excess vita 	mins are in the urine						1	Ins	oluble fibre Source		l <u>e Fibre</u> urce	
	Source	Function	Deficiency						$\ $	-	in, whole wheat emeal cereals	Peas, beans apples and		
B1 Thiamin	Bread / Pasta / rice / peas / eggs / liver	Energy release	Tiredness				ater s hydrated.			 Insolut 	Function ole fibre goes	Lowers c	nction holesterol,	
B2 Riboflavin	Milk / eggs / leafy greens	Energy release / repair	Tiredness / dry skin			<u>So</u> Drinks, fruit and	urce vegetables, so	up.		collect waste	h the body and s rubbish and before pushing it	risk of he • Helps to	educe the eart disease. control the	
B3 Niacin	Wheat / nuts / meat / fish	Energy release / skin	Tiredness		_	unction	Defic	iency			poo. ts like a sponge anding to hold	by slowin	blood sugar ng down the nf food from	
B9 Folic Acid	Liver / peas / leafy greens	Growth / healthy babies / red blood cells	Anaemia / tiredness		cogniti	l physical and ve functions, l regulation of dy's	 Even mild dehydration can lead to headaches, irritability and loss of 						tomach (good for	
B12 Cobalami n	Milk / eggs / meat / fish	Red blood cells	Tiredness / nerve damage		Gets ri	rature. d of waste nces in the	 Groups at children, o and active 	tion. risk include old people			eficiency ipation, bowel cancer		R <u>DA</u> ber day	
c	Citrus / tomatoes / green veg	Immune system / absorbs iron		ľ				r people.	八					

TAMWORTH SIXTH FORM

GCSE FOOD PREPARATION AND NUTRITION: The Eatwell guide and healthy eating guidelines







GCSE FOOD PREPARATION AND NUTRITION: Life stages/ dietary needs



Life Stages Toddlers Eatwell guide doesn't apply High calcium Small meals Variety of different fooods Young Children Teenagers Protein for growth and Should be given protein for growth and development Given small, attractive development portions of food · Risk of obesity and poor Introduce to new foods skin - Eat 5-a-day to help Good supply of iron (esp. gradually Avoid fatty and sugary for girls during period) Avoid fatty or sugary food food · Calcium and Vit. D for Try to develop good habits bones and teeth Early and middle Adulthood Follow eatwell guide Men need more calories Women need more iron Calcium and vitamin for strong bones Elderly Should be given protein to repair worn out body cells Need a good supply of calcium and vitamin D for healthy bones Good supply of iron to keep the body healthy Need more fat in the winter to stay warm · Fresh fruit and vegetables for vitamins and minerals May struggle to cut (arthritis) or chew food (false teeth) and digestive problems.

Special Dietary Needs

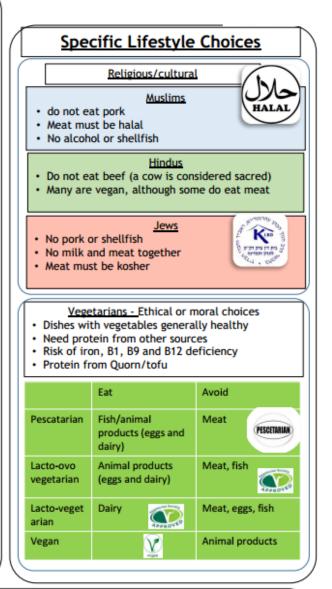
Allergy: an adverse reaction by the body to certain substances

Intolerance: condition that makes people avoid certain food because of the effects on their body

Allergic reaction: the way someone responds to certain food.

- For example: a rash/swelling/anaphylactic shock

Type 2 Diabetes	Starchy food/high in sugar
Low fat diet	Foods naturally high in fat Foods cooked in a lot of fat
Low salt diet	Processed food Smoked meat Chinese food with MSG
Nut allergy	Avoid nuts, blended cooking oil, margarine with nut oils and often seeds
Lactose intolerance	Avoid milk, cheese, yogurt, processed food
Gluten intolerance (coeliac)	Avoid Wheat, wholemeal, bran, pasta, rye, beer.
Iron deficiency anaemia	High iron food – red meat, dark green leafy vegetables
Calcium deficiency	High calcium food – dairy High Vit. D food – tuna, salmon
Dental Caries	Limit sugary food
Cardiovascular disease and obesity	Correct portion size Reduce Saturated fats Fruit and veg to replace fatty food



Physical Activity

People may have high energy needs if they are physically active, such as sports people or people who are on their feet a lot.





There are a great deal of factors that influence someone's food choices.

Factors affecting food choice

Physical Activity Level • (PAL)

- Healthy eating •
- Cost of food •
- Income •
- **Culinary Skills** 0
- Lifestyle •
- Seasonality •
- Availability •
- Special Occasions •
- Enjoyment •
- Allergies •
- Intolerances •
- Animal welfare •
- Working conditions (fair • trade)
- **Environmental impact** •
- Eating naturally 0

Different Religions Have Different Views on Food

Hinduism

Islam

and sunset.

Judaism

Many Hindus are vegetarian. Some vegetables are avoided as they are seen as harmful, including garlic, onions and mushrooms. Some HIndus do eat meat but it must be slaughtered using a quick painless method called Jhatka. Cows are considered sacred and cannot be eaten.

Meat eaten by Islams must be halal - the

whilst being blessed. Muslims cannot eat

pork or product made from pigs such as

Ramadan muslims fast between sunrise

be kosher - fir for consumption.

scales but no shellfish.

cooked or mixed together

gelatine. They cannot drink alcohol. During

Follow Jewish dietary laws (kashrut). Food must

Kosher animals have split hooves and chew the

Slaughter of animals must be quick and painless

cud - cows and deer. Can eat fish with fins and

animal is slaughtered in a specific way



Christianity

- No strict dietary rules During lent some christians give up certain foods or drinks
- Specific food traditionally eaten during celebrations. Hot cross buns on good friday, pancakes for shrove tuesday.



Baptised Sikhs are prohibited from eating ritually slaughtered meat (kosher and halal), may are vegetarian. Sikhism teaches against overindulging and only to eat what is needed.

Buddhism

Bussists believe all living things are sacred and most are vegetarian or vegan. Most do not drink alcohol. Some chose to fast from noon until the following sunrise.



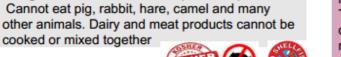
Rastafarianism

Eaten pork is forbidden.

Many eat a clean and natural diet called I-tal. mainly made up of vegetables.

The can eat fish under 30cm. Many do not drink alcohol. They drink things made from naturally grown produce such as herbal tea or fruit juice.











Food labels help people to make informed choices about what they eat. The information is controlled by different regulations.

Compulsory Informatio

Food Labelling Regulations

- Food Information for • Consumer (FIC) updated in 2014 must be followed by all european union countries (EU)
- From 2016 it was • compulsory for nutritional information to be included on the label
- The food standards agency • (FSA) is responsible in the **UK for ensuring** manufacturers follow the regulations
- In the UK mood labels 0 must not mislead, be easy to read and all allergies must be emphasised.

Serving Size: 1 Chocola	Sec. 22 (2010)	Per	Per 50g	N 1	100g of th food
Typical Nutritional In	formation		Serving		
Energy (kJ)		1691	84	-	
Protein (g)		9	4.		
Glycaemic Carbohydra		7.5	3.7	5	
of which total sugars*	(g)	6.8	3	- FIPE	y si giver
of which Polyols (g)		48	2	in ki	lojoules,
of which Starch (g)		1	-		he rest in
Total Fat (g)	2.3	16.56	2	`	
of which saturated fat	(g)	11.5	5.		grams
of which trans fat (g) of which monounsatur	rated fat (a)	4.4	2		
of which polyunsatura		0.7	0.		
Cholesterol (mg)	ieu lat (g)	12		6	
Dietary Fibre# (g)		5			
Total Sodium (mg)		66			
# AOAC 991.43 *Suga	them Courts M			<u> </u>	
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Non - Compulsory Information





- Manufacturers will often add information or claims about their products to make them more attractive to the consumer
- Traffic light labelling allows . people to see how healthy the product is at a glance. These are useful but not required by law.

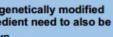
-	-	-	-	-	
Energy 1046kJ	Fat 3.0g	Saturates 1.3g	Sugars 34g	Sait 0.9g	
50kcal	LOW	LOW	HIGH	MED	
13%	4%	7%	38%	15%	

of an adult's reference intake Typical values (as sold) per 100g: 697kJ/ 167kcal

- Products can state whether they . are suitable for certain groups, such as religious groups or dietary choice e.g. vegan
- Country of origin



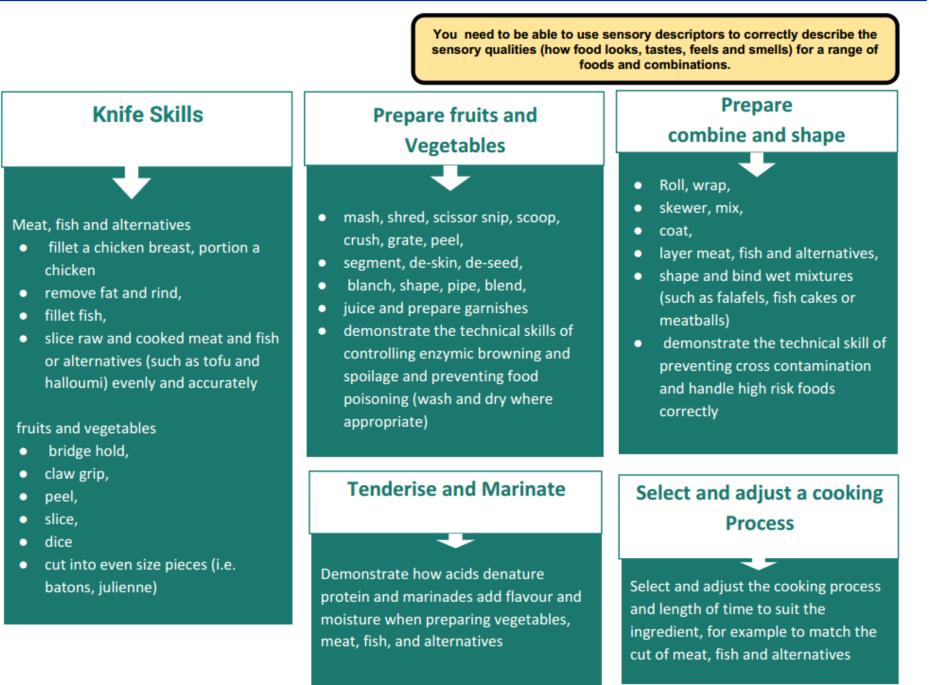
Serving suggestions. .











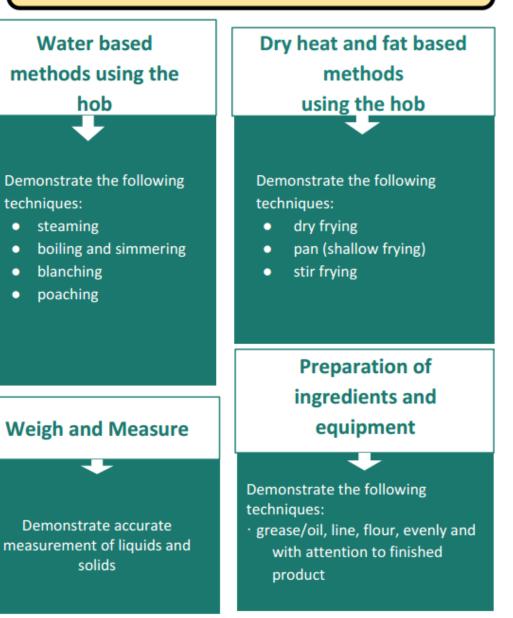




You need to be able to use sensory descriptors to correctly describe the sensory qualities (how food looks, tastes, feels and smells) for a range of foods and combinations.

Making Sauces

- Make a blended white sauce (starch gelatinisation) a roux and all in one blended sauce, infused sauce, veloute, bechamel, to demonstrate understanding of how liquid/starch ratios affect the viscosity and how conduction and convection work to cook the sauce and the need for agitation
- Make a reduction sauce such as pasta sauce, curry sauce, gravy, meat sauce (including meat alternatives such as myco-protein and textured vegetable protein) to demonstrate how evaporation concentrates flavour and changes the viscosity of the sauce
- make an emulsion sauce such as a salad dressing, mayonnaise, hollandaise to demonstrate the technical skill of how to make a stabilised emulsion







You need to be able to use sensory descriptors to correctly describe the sensory qualities (how food looks, tastes, feels and smells) for a range of foods and combinations. **Using Raising agents** Set a mixture -Set a mixture - heating removal of heat (coagulation (gelation) Demonstrate the following techniques: · Use egg (Colloid foam) as a raising agent-create gas in air Demonstrate the following Demonstrate the following foam—whisking egg whites, techniques: techniques: whisked sponge · Use Chemical Agents—self rasing use protein to set a mixture on use starch to set a mixture on flour, baking powder, bicarbonate heating such as denatured chilling for layered desserts such of soda protein in eggs for quiche, choux as custard or cheesecake · Use Steam in a mixture (Choux Pastry, pastry Batter) Using the grill Using the oven Use of Equipment Be able to demonstrate the following Demonstrate the following techniques Demonstrate the following with a range of foods, such as techniques: vegetables, meat, fish or alternatives Demonstrate the followingtechniques: baking · use a blender, food processor, mixer, such as halloumi, seeds and nuts: roasting 0 and microwave char casseroles and/or tagines grill or toast braising •





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Shaping and finishing dough

Demonstrate the following techniques:

- roll out pastry, use a pasta machine, line a flan ring, create layers (palmiers), proving/resting
- glazing and finishing such as pipe choux pastry, bread
- rolls, pasta, flat breads, pinwheels, pizza, calzone

Test for Readiness

Demonstrate the following techniques:

use a temperature probe, knife/skewer, finger or 'poke' test, 'bite', visual colour check or sound to establish whether an ingredient or recipe is ready

Judge and manipulate sensory Properties

Demonstrate the following techniques:

- how to taste and season during the cooking process
- Change the taste and aroma through the use of infusions, herbs and spices, paste, jus, reduction
- how to change texture and flavour, use browning
- (dextrinisation) and glazing, add crust, crisp and crumbs
- presentation and food styling use garnishes and
- decorative techniques to improve the aesthetic qualities,
- demonstrate portioning and presenting