Year 10 Food Preparation & Nutrition: Fruits and vegetables

Knowledge Organiser

Macron	utrients- ne	eded in larger amounts		8 Guidelines for healthy eating		
Nutrient		Function	Sources	 Base your meals on higher fibre starchy carbohydrates. 		
Carbohydrate (Starch and sugars)		Energy	Bread, pasta, rice, cakes, biscuits	 Eat lots of fruit and veg. Eat more fish, including a portion of oily fish. Cut down on saturated fat and sugar. Eat less salt: no more than 6g a day for adults. Get active and be a healthy weight. 		
Protein		Growth, repair and maintenar	nce Meat, fish, dairy, eggs			
Fat (Saturated and unsaturated)		Energy, warmth, protection of organs, a carrier for fat solubl vitamins—A, D, E and K	Sausages, bacon, lard, dairy products, nuts, seeds, avocados	 Do not get thirsty. Do not skip breakfast. 		
Micronut	trients- nee	ded in smaller amounts		Fibre		
Nutrient Function		Sources	Fibre is found in foods that come from plants. Fibre keeps our			
Vitamins				digestive system healthy by absorbing water and speeding up		
A	Immune sys light	stem, helps us to see in dim	Dairy, eggs, leafy vegetables, carrots	removal of waste. When you eat foods high in fibre, you feel fuller for longer . This reduces the temptation to snack and helps us to maintain a healthy weight.		
В	Energy rele	ease, healthy nervous system Eggs, milk, fortified cereals		Insoluble fibre- not easily broken down so passes through the body unchanged. Helps keep the bowels healthy and prevents constipation and piles.		
С	Fights infection, heals wounds, helps to absorb iron from foods		Citrus fruits, kiwi, strawberries, potatoes			
D	D Healthy bones and teeth, helps the body to absorb calcium		Oily fish, eggs, fortified margarine and cereals			
Minerals	6			MEDIUM 800g		
Calcium	0	es and teeth, to help with wth in children	Dairy, green leafy vegetables, fish with edible bones	Soluble fibre - is broken down and is easier to digest. Helps to reduce cholesterol levels and prevents coronary heart disease. $\qquad \qquad $		
Iron		ake haemoglobin in the red which carry oxygen around	Red meat, beans, nuts, green leafy vegetables, drie fruit			
Sodium	Helps contr body	ol the amount of water in the	Processed food, salt, stock cubes	Z a day		

Year 10 F	ood Preparation & Nutritio	Knowledge Organiser	
 Transports Aids diges Regulates Acts as a l Dehydration A lack of fluid thirstiness, a 	ential for life. It has many functions: a nutrients in the blood tion and prevents constipation body temperature through sweating ubricant for the joints could lead to dry mouth, feeling tired, a day	 Processed fruits and vegetables Pre-prepared •Canned •Frozen •Dried •Juiced Advantages of using these include: Convenience Available all year round Increased shelf life More affordable Frozen fruit and vegetables are More nutritious Access to a greater variety of foods that you wouldn't buy locally e.g. exotic fruit 	Enzymic browning This is a chemical process whereby when fruit and vegetables are cut open, some of the cells have access to oxygen which causes the flesh to discolour and turn brown. <u>Prevention</u> Acidity—adding vinegar, lemon or lime juice would denature the enzyme. Heat—blanching, boiling or other cooking methods will destroy the enzyme. Water—immersing the fruit or vegetable in plain water slows down enzymic browning.
Key vocabulary		Food miles	Importance of fruit and vegetables
Cross contamination	The transfer of bacteria from one food to another.	These are the distance food has travelled to get from where it was produced to where it is consumed.	 Provide carbohydrates Contain a range of vitamins Contain a range of minerals Low in fat High in fibre High water content Low in calories Contain only natural sugars Food hygiene and safety -18°C or below = freezer 0-5°C = fridge 5-63°C = danger zone—ideal temperatures for bacterial growth 63°C+ = hot hold 75°C+ = core temperature of cooked food
Gelatinisation	The thickening of a mixture in the presence of heat, due to swelling of starch granules	Food miles have an impact on the environment as transport is needed to transport food (train, plane, boat, car etc.) and this creates pollution.	
Preservation	Keeping something in its present state	How can food miles be reduced?	
Organic	Grown without use of chemicals.	Buy locally produced foods	
Composite food	A food that includes more than one section of the Eatwell Guide e.g. lasagne.	 Grown your own Eat seasonal foods 	
Roux	A mixture of melted fat and flour, which is used to make a sauce.	• Walk/cycle to the shop	
Fortified	Adding nutrients to increase its nutritional value.	Shop less frequentlyShop at farmers markets	
Sensory analysis	Judging food based on appearance, taste, texture and aroma.	Pick your own Ways to reduce food waste	
Glaze	Beaten egg and/or milk, brushed onto pastry to make it shiny and golden brown.	 Reusing leftovers Freezer foods that are nearing their use by date 	
Dry fry	Heating without fat or water.	Blue—raw fish	
Simmer	Cooking just below boiling point.	Check cupboards before going shoppingWrite a shopping list	Yellow—cooked meat Green—salad and fruit
Reduce	Simmering a liquid until it thickens.	Only cook one meal for the entire family	
Stewing	Food submerged in liquid & cooked slowly	Brown—vegetables	
Rubbing in	A technique where fat is rubbed into flour using the finger tips.	Store foods correctly	White—bakery and dairy