KeyWords			Protein			Fat	Minerals			
1	Protein	Needed for growth and repair of body tissue and to maintain and build cells.	Also be used to provide the body with energy once it has been used for its primary function			It is important in our diets as it helps to protect the vital organs, protects the	Calcium	For healthy bones and teeth. Also nerves, muscles and involved in blood clotting. Sources: milk, cheese, other dairy foods, green leafy		
2	Carbohydrates	It provides the body with instant and slow releases of energy. Also helps the digestive system.	Everyone needs protein in their diets but needs vary at certain times of our lives: Children, babies, pregnant women, nursing mothers		$\ \cdot \ $	skeletal system, to keep us warm.	Iron	vegetables, soya, bread. Red blood cells, normal metabolism, excretion and a healthy immune system. Sources: liver, meat, poultry, nuts, dried fruit, dark green leafy vegetables.		
3	Fat	Needed in small amounts to keep us warm protect our vital organs and our skeletal system. Acts as an energy reserve			2	There are two types of fat. Animal which usually contain more saturated fats. Plant which				
4	Vitamins	Needed to stay healthy. They help to heal wounds, keep skin healthy and for growth in children.	High biological value proteins contain all the amino acids that our bodies cannot make. Low biological value proteins are missing one or more of the essential amino acids.			usually contain more unsaturated fats.	Potassium	Essential for water balance and for nerves to work properly Source: milk, fish, shellfish, fruit –		
5	Minerals	Many different needs in the body. Includes formation of bones & teeth, helps the nervous system and the forming of red blood cells.			3	Reducing fat helps to lower the risk of obesity, lower the risk of heart disease, lower	Fluoride Healthy	BANANAS. Healthy bones and teeth. Fluoride works with the other vitamins.		
6	Fibre and NSP (non-starch polysaccharides)	To rid the body of waste and prevent constipation	Vitamins Vitamin A	Helps form and maintain healthy t skin. Helps eyesight & night vision. such as eggs, meat, milk, cheese, o	. com	es from animal sources,		Sources: fluorinated water, tea, fish, toothpaste.		
_				halibut fish oil.				Carbohydrates		
7	Water	To maintain body temperature, help digestion, lubricate joints and help remove waste from the body.	Vitamin B	Allows the body to use and stor carbohydrates in food. Helps form that carries oxygen around the bod foods including meat, poultry, bread	moglobin, the substance ound in a wide variety of	Carbohydrates can be divided into three main groups.				
8	Macronutrients	The three main big nutrients which give us energy. They are fat, carbohydrates and protein.	foods including meat, poultry, bread, cereals, egg, vege potatoes.				SUGAR: This gives food a sweet taste and provides the body with instant energy that does not last very long.			
	Micronutrients	The four small nutrients. They are vitamins and minerals.	Vitamin C	Good for maintaining healthy sk vitamin C leads to a disease calle immune function and protecting a	ed scurvy. Vital in supporting					
9	Basal Metabolic Rate	The rate at which a person uses energy to maintain the basic functions of the body when it is at complete rest,	fruits and vegetables. Vitamin D Helps the absorption of calcium. Mai created by the body naturally with e this can lead to Rickets.			·	STARCH: This gives us slow release energy over a long period of time.			
		such as: breathing; keeping warm; keeping the heart beating.				ound in meats but is also sure to sunlight. A lack of	DIETARY FIBRE: this is also known as 'roughage'. It helps our digestive system to work properly to avoid constipation and other more serious diseases.			

		Subject: Food Technology Year 8			Term: Two Topic: Dietary Goals and Food			Labelling and Fairtrade			
Key Words		Dietary Goals			Dietary Goals				Fibre Facts -Dietary Goals		
1	Dietary fibre	Unrefined and untreated plant food.		1		al goals set by the Governm achieve a healthy and balanced	•		Fibre makes up the cell walls of plant foods such as cereals, vegetables, beans and fruit		
2	Refining	Means that most of the outer, fibrous layers of wheat are removed and discarded during processing.						2	Wholemeal foods such as bread, pasta and rice has the whole grain of the wheat ground, including most of the bran layer, so it contains more fibre.		
3	Soluble fibre	Which is contained in oats, rice, barley and fruit.		2	Goal One: Eat less fat - To prevent obesity, to lower the risk of heart disease, to lower cholesterol.			3	Fibre is not digested and absorbed by the body. It is very bulky and absorbent, like a sponge, and so holds a lot of water.		
4	Insoluble fibre	Wheat, pulses (beans, peas, lentils) and the skin of fruit and vegetables.		3	Goal Two: Eat less sugar - To prevent tooth decay & gum disease, to prevent obesity, to prevent the risk of developing type 2 diabetes.			4	It prevents constipation and other bowel related disorders. Fibre also acts as a 'mop' in the bowel and removes any		
5	Health Claim	Refers to a relationship between a foc components such as a vitamin, minera	-	4		: Eat less salt - To help lo help prevent heart disease.	ower blood		harmful and poisonous substances from it. Each serving (150g) contains		
6	Nutrition Claim	Suggests a food or drink has a particular nutritional benefit E.g. 'Source of Calcium'		5	Goal Four:	Eat more fibre - To improve o lower the risk of bowel an		Food Labelling- example Energy 1046kJ 250kcal 250kcal Low Low High MED			
	Fairtrade Food Labelling- traffic lights syste								Typical values (as sold) per 100g: 697kJ/ 167kcal		
1		About better prices, decent working conditions and fair terms of trade for farmers and workers. About supporting the development of thriving farming and worker communities that have more control over their futures and protecting the apprire properties which they live and work		What does green mean? If there is mostly green on the label, then this is telling you straight away it is low in that nutrient and a healthier choice! What does are the work of the label. What does are the label in the label.		What does amber mean? This means the product is	- 1		What does red mean? Red doesn't mean you cannot eat the product, but means the food is		
2	farming a					You can eat foods with all amber on the label most o time.	or mostly of the	W if	high in fat, saturated fat, salt or sugar. We should be cutting down on foods with lots of red on the label, or if they are eaten, to have less often and in small amounts.		
the environment in which they live and work. So when choosing between similar products, try to opt for more											
3	Advantages include: more access to exotic fruit and vegetables/foods, wider range of vitamins & minerals in diet, new, exciting tastes, creates a lot of jobs, and cheaper products. Food Sustain Reduce Reduce the car			ood was ood mil on footp	ste. les and orint	ONLY BUY WHAT YOU NEED COMPOST food waste	Burning fos Monoxide, planet to he	s-Pollution - any transportation of food uses fuel. ssil fuels creates pollution – Greenhouse gases [Carbon Dioxide, Carbon Hydrocarbons, Sulphur oxides and Nitrogen oxides]. These cause the neat up and also make the air more difficult for us to breathe. They also drain' and smog.			
4	pollution working co damaged fresh, perh	Disadvantages include: not eco-friendly, pollution and packaging, low wages, poor working conditions for fruit & vegetable pickers, damaged products through transport, not very fresh, perhaps 3 weeks old if not tinned, pureed or dried, can put British farmers out of work. caused by transport, not very food packagin improve the limprove the			sary •	and recycle packaging. BUY and EAT foods that are in season BUY LOCAL GROW YOUR OWN WALK to the local shop or get the bus.	Food Miles can destroy for local pe	Food Miles-Extraction of fossil fuels from the ground takes a lot of energy. It can destroy natural habitats. This means trees are cut down and there is now for local people and animals to live. Also, plant life is destroyed. This is how pland animals can become endangered or extinct. Cutting trees down can also cause flooding and loss of nutrients in the soil.			

Subject	t: Food Technology Year 8	Term: Three	Topic: Fairtrade, Seasonality and Sustainability			
	Keywords		GM FOODS			
1	Primary processing	Primary processing is the conversion of raw materials into food commodities, e.g. wheat into flour	Genetically modified (GM) foods are foods derived from genetically modified organisms. Genetically modified			
2	Secondary processing	Secondary food processing is the process of using ingredients produced through primary food processing to	organisms have had specific changes introduced into their DNA by genetic engineering techniques. Solving global hunger. Crops can be genetically modified to grow in areas where they can't normally grow, for example in areas of drought.			
3	GM Foods	Genetically modified foods (GM foods), also known as genetically engineered foods (GE foods), or bioengineered				
		foods are foods produced from <u>organisms</u> that have had changes introduced into their <u>DNA</u> using various methods of <u>genetic engineering</u> .	Environmental safety. Some plants could become so well modified that they could grow in any conditions and could become weeds.			
4	Seasonality	Eating and using foods according the current season.	FOOD PROCESSING			
5	Hydroponics	a production method where the plants are grown in a nutrient solution rather than in soil.	making food safe to eat by killing harmful bacteria making food look and taste its best by adding colour after processing			
	Seasonality					
1		ociated CO2 emissions) needed to grow and transport the food we eat that is scarcer or has travelled a longer way [Food Miles].	making foods become available that are out of season, like frozen raspberries and strawberries making foods easier to prepare, this is important for people who live busy lifestyles making foods have a longer shelf life by adding preservatives PRIMARY PROCESSING – first stage of processing can be washing and packing foods or changing raw foods like wheat			
2	Helps to support the local economy.					
3	Allows us to reconnect with nature's	cycles and the passing of time.				
4	Seasonal food is fresher and so tend	s to be tastier and more nutritious.				
	Vertical Farming		into flour			
1	Hydroponics and Aeroponics are u underground in urban areas. The crops than a traditional field withou	sed to grow salad crops in large trays or vertical columns in factories or use of water is minimal and they can produce between 50-100% more ut pollution water and soil with nutrients and fertilisers.	SECONDARY PROCESSING – to change a food item which has been processed once into something else like ready meals or changing flour into bread.			