

BTEC LEVEL 3

Question 3: Provide and justify nutritional guidance



Вескт	Too		• ,			•	success	
KG	1 – Common Termii	nology	KG 5 – Fats					
1.	RDA	Recommended daily allo	owance	Fats are important for normal growth and development. They can also be important for energy as it has the most concentrated source of energy. Too much saturated fat in a diet can				
2.	Energy Measures	Calories, joules, kilocalori	es. Kilojoules.					
	BMR	Basic metabolic rate. Minimum rate of metabolism in an individual who is not digesting or absorbing food. BMR represents the lowest rate of energy usage that can sustain life.		cause significant he				
3.				11.	Gov recommendation Men should consume no more than 30g a day Women should consume no more than 20g a day			
KG :	2 – Key words		12.	Saturated (animal products) Meat, Dairy, Butter and Cream				
4.	Macronutrients	Required in large amoun	ts on a daily basis.	13.	13. Unsaturated (plant products) Avocado, Nuts. Olives and Soybeans.			
5.	Micronutrients	Required in a smaller am prevention and well-beir	ount but essential or disease ng.	KG 6 –Vitamins and Minerals				
Carbo They o	KG 3 - Carbohydrates Carbohydrates are your bodies most available source of energy. They can be stored in the muscles later for energy but excess carbs not required will be converted into fat. 45-65% of diet				Vitamin A	Needed for the normal functioning of the eyes and the respiratory tract and keeps immune system healthy. Found in green vegetables and carrots.		
6.	Simple - These are sugars and a quick energy source				Vitamin B	Essential for the support of the breakdown and release of energy from food. Found in eggs and lean meat.		
7.	Complex - Broken do Bread, pasta, rice an	own slowly to release energ nd potatoes	y over long periods. E.g.	16.	Vitamin C	Helps protect cells and keeps them healthy and maintain healthy connective tissue. Found in vegetables and citrus fruit.		
KG 4	4 – Protein				Needed for the absorption of calcium and keeping bones healthy. Found in fish, eggs and sunlight UV.			
	secondary source of ene	uild and repair tissue. Can also rgy when carbs and fats are	17.	Vitamin D				
8.	On average: Men should consume c Women should consum		18.	Calcium	Helps to build strong bones and teeth and ensures blood clots normally. Found in milk and green leafy vegetables.			
9.	Complete proteins: Me	at, Milk and Fish		19.	Iron	Needed for the formation of haemoglobin in red blood cells to help the transport of oxygen. Found in liver, meat and nuts.		
10.	Incomplete proteins: C	ereals, Bread and Beans			11011			



gr Group: 12/13

Beckf	' KIF(LEVEL 3	Question 3 : Provide	nutriti	ional strategie	es es	Year Group: 12/13	succeed			
KG 6 – Hydration				KG 8 – Sports Drinks							
Effects on fluid amounts											
17.	Climate Hot/humid climate will require an increase in fluid intake as the bodies ability to keep cool is reduced.		Sport drinks aim to provide three nutrients: Carbohydrates – to replace energy Water – Replace fluids Electrolytes – replace minerals lost by sweating. There are 3 types of sports drinks.								
18.	Levels of exercise Athletes need to ensure they are fully hydrated before, during and after exercise.										
19.	Time of year Athletes should be encouraged to take more care when hydrating in the summer months due to higher outdoor temperature.					Contain the same concentration of glucose to					
Dehydration						water as blood. (4-8% or up to 8g per 100ml of water).					
19.	This is a reduction in the normal water content of your body, when you lose more fluid than you take in.			25.	Isotonic	They contain sodium, making them quicker to absorb into the bloods stream.					
20.	Dehydration can lead to decreased blood pressure, increased heart rate and increased core body temperature.		Useful for prolonged exercise and can be sued before exercise.								
Нуре	Hyperhydration					High energy, concentrated sports drinks containing over 8% of carbohydrate; they are					
21.	This is an increase in the normal water content of your body, when you take in more fluid than you lose.										
KG 7 – Ergogenic aids				26.	Hypertonic	 absorbed more slowly than isotonic drinks. Not ideal for optimal rehydration and may need to be consumed with other fluids. They are best used in the recovery phase after exercise. 					
Ergogenic aids are used to improve performance during high-intensity exercise.											
22	. Energy ge	els/bars	Helps replenish carbohydrates Helps replenish glycogen/calories Deliver a quick supply of energy to your muscles when needed.				er concentration of carbor re diluted than isotonic an	,			
23	. Protein dri	inks	Can reduce muscle soreness post-training Increase muscle size and strength Reduced hunger Can be expensive		Hypotonic	 hypertonic drinks. They contain less than 4% carbohydrates (4g per 100ml of water) and are generally well absorbed and well tolerated. When sweat losses are small, these drinks encourage fluid replacement. Their salt concentration is lower than body fluids. 					
24	Carbohyo loading										