NCFE Health and Fitness Level 1/2 – Diet, Weight, Nutrition & Hydration

A balance diet – eating the right foods in the correct proportions. Insufficient macro and micronutrients can cause health issues *i.e. anaemia, rickets and scurvy*.

7 components of a balanced diet:

Macronutrients

- Carbohydrates Main energy source, i.e. pasta & potatoes
- Fats Secondary energy source & provides insulation. i.e. butter
- Proteins Help growth and repair of muscles. i.e. eggs, meat & fish

Micronutrients

- Minerals Maintains a healthy bodily functioning, i.e. iron and calcium
- Vitamins Maintains a healthy immune system. i.e. vitamin C/D

Other components

- Fibre Aids digestion of food in the gut. *i.e. cereals & nuts*
- Water Maintains hydration of an athlete.

Hydration and physical activity

Water is necessary for:

- Transportation of nutrients
- Removes waste products through urine
- Regulates body temperature

A lack of water can cause **dehydration**. Symptoms are tiredness, lack of concentration and headaches.

After the event - An athlete will continue to drink fluids to replace the water and carbohydrate levels that are depleted.

Organising meals around exercise - it is recommended to eating 2-3 hours before exercise. This is due to redistribution of blood during exercise (Blood Shunting)

When exercising, the distribution of blood around the body changes according to the demands. *i.e. away from digestive system and to working muscles.*

Energy Balance – this relates to intake and energy expenditure.









Weight Los

Dietary manipulation to optimise performance

Carbohydrate Loading – a strategy used by endurance athletes to increase





<u>Protein intake</u> – the intake and timing of this consumption is vital to maximise the repair of muscle tissues after training. Protein should be take straight away to increase muscle repair. Used by sprinters, shot putters & power events.

Optimum Weight – this is the ideal weight someone should be. This will depend on:

- Height
- Gender
- Bone structure
- Musclegirth (size)

Optimum weight varies depending on the requirements of different sports/positions. i.e. rugby forwards & backs

Somatotypes (AQA only)





Remember the 'M' stands

for MUSCULAR





@PEResourcesbank

GCSE Physical Education – Diet, Weight, Nutrition & Hydration	
Term	Definition/notes/concept
Keywords:	

@PEResourcesbank