KNOWLEDGE ORGANISER **BIG IDEA: ORGANISMS**

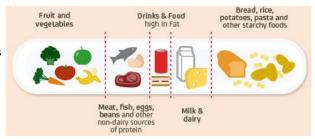
TOPIC: Digestion

Key Word	Definition
Enzymes	Substances that speed up the chemical reactions of digestion by breaking down large food molecules into smaller ones.
Dietary fibre	Parts of plants that cannot be digested, which helps the body eliminate waste.
Carbohydrates	The body's main source of energy. There are two types: simple (sugars) and complex (starch).
Lipids	(fats and oils) A source of energy. Found in butter, milk, eggs, nuts.
Protein	Nutrient your body uses to build new tissue for growth and repair. Sources are meat, fish, eggs, dairy products, beans, nuts and seeds.
Stomach	A sac where food is mixed with acidic juices to start the digestion of protein and kill microorganisms.
Small intestine	Upper part of the intestine where digestion is completed and nutrients are absorbed by the blood.
Large intestine	Lower part of the intestine from which water is absorbed and where faeces are formed.
Gut bacteria	Microorganisms that naturally live in the intestine and help food break down.

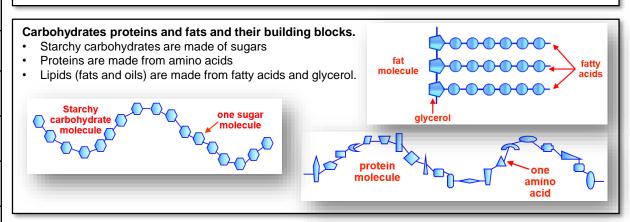
The body needs a balanced diet with lipids, proteins, vitamins, minerals, dietary fibre and water, for its cells' energy, growth and maintenance.

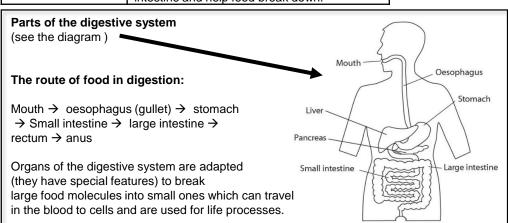
Vitamins and minerals are needed in small amounts to keep the body healthy:

- · Iron is a mineral important for red blood
- Calcium is a mineral needed for strong teeth and bones.



If you have an unbalanced diet you might suffer health problems such as obesity, anorexia or a deficiency disease.





Digestive enzymes are the chemicals that break large Insoluble (will not dissolve) food molecules into smaller Soluble (will dissolve) molecules:

- carbohydrase breaks carbohydrate into smaller sugars
- protease breaks protein into amino acids
- lipase breaks fat into fatty acids and glycerol

