Chapter 1: Health and lifestyle

Knowledge organiser

The digestive system Digestion is the breaking mouth. where down of large insoluble food is chewed food molecules to small soluble ones. These small salivary glands pancreas add enzymes molecules are absorbed makes enzymes into the blood for your liver body to use. makes bile pesophagus (gullet) carries food gall bladder to the stomach stores bile omach churns food bile duct -Bacteria live on bile travels to (physical digestion) fibre in your diet in and begins chemical small intestine digestion of proteins the large intestine small intestine where digested and make important food is absorbed vitamins (e.g., rectum into blood (stores faeces) vitamin K). (expels faeces) large intestine where water and minerals are absorbed into the blood

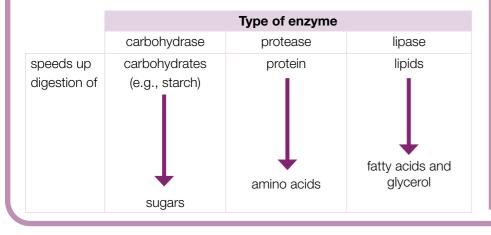
Enzymes

B2

Enzymes are special proteins that can break large molecules of nutrients down into small molecules.

Enzymes are known as biological catalysts - they speed up digestion without being used up.

There are three main types of enzyme involved in digestion:



Diet

Nutrients

Nutrient	Role in your body
carbohydrates	main source of energy
lipids	fats and oils provide energy
proteins	growth and repair of cells and tissues
vitamins and minerals	essential in small amounts to keep you healthy
water	needed in all cells and body fluids
fibre	provides bulk to food to keep it moving through the gut (not actually a nutrient)

Lipids

Add a few drops of ethanol to the

food solution, shake it, and leave

for one minute. Then pour the

the food contains lipids.

hydroxide solution.

ethanol into a test tube of water.

Result: If the solution turns cloudy.

Protein

purple, the food contains protein.

Add a few drops of copper

sulfate solution and sodium

Result: If the solution turns

Food tests

Starch Add a few drops of iodine solution to the food solution.

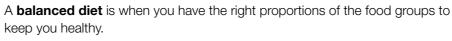
Result: If the solution turns blueblack, the food contains starch.

Sugar

Add a few drops of Benedict's solution and heat the solution in a water bath.

Result: If the solution turns orangered, the food contains sugar.

Effects of an unhealthy diet



Eating an unbalanced diet can lead you to be:

underweight Increased risk of:	overweight Increased risk of:		vitamin and mineral deficient		
 poor immune system lack of energy	heart diseasestrokediabetes	L	Vitamin A deficiency can lead to night blindness.	J	
 lack of vitamins and minerals. 	some cancers.		Vitamin D deficiency can lead to rickets.		

Key words

Make sure you can write definitions for these key terms.

addictio	n anus	balanced	l diet d	carbohydrase	carbohydrat	te carbon	monoxide	catalyst	deficiency	digestion	digestive syste	m drug	enzyn	1e fibre
lipase	mineral	nicotine	nutrien	it obese	oesophagus	protease	protein	rectum	small intestine	starvation	ı stimulant	stomach	tar	vitamin

Drugs

Medicinal

- used in medicine
- benefit your health
- used to treat symp cure illness

 some have side eff examples include: pa antibiotics, and coug

Alcohol is a depress Drinking large amou

- stomach ulcers
- brain damage
- Drinking during preg
- miscarriage
- low birth weight b

Cigarette smoke is f tar - clogs the lining chemicals

nicotine - an addict carbon monoxide

- Smoking can cause
- heart disease strokes
 lung ca

Smoking during pre weight babies, and

Addiction - When you caused by a drug and When a person who is suffer from sickness, r sweating. These are ca

Effects of lifestyle on health

Drugs are any chemicals that affect the way your brain and body work

als that affect the	way your brain and body work.						
drugs	Recreational drugs						
if used correctly otoms or fects ainkillers, h mixture	 taken for enjoyment/to relax/stay awake normally have no health benefits many can be harmful many are illegal examples include: alcohol, caffeine, heroine, cocaine, tobacco 						
Alcohol sant because it slows down your body's reactions. Ints of alcohol over a long time can cause: • heart disease • reduced fertility • liver damage (cirrhosis) gnancy increases the risk of: stillbirth • premature birth babies • Foetal Alcohol Syndrome (FAS)							
Smo	king 🗸						
full of harmful chemicals including: g of the lungs and alveoli, contains cancer-causing							
ctive stimulant - stops blood from carrying oxygen. e many different diseases, including: • emphysema • respiratory infections cancer egnancy increases the risk of miscarriage and low birth can also affect the foetus' development.							
	-						
d you need to take s addicted to a dr	s used to the chemical changes the drug to feel normal. Tug tries to stop taking it, they may cramps, headaches, anxiety, and I symptoms .						
	+ 	P					

lipid