

			Y7 Biology T2- Diet & Health	
	e <u>em</u> ules are broken down into <b>small</b> molecules e absorbed into the blood.	Food tests		
There are two • Physical bre physically bre	o types of digestion: akdown- Structures like teeth and muscular walls eak up molecules reakdown- Enzymes break up molecules	Test for sugars	Add Benedict's s and heat. <b>Positive test for si</b> <b>sugars</b> : Changes (blue to green/ y red).	
8	Oesophagus	Test for <b>starch</b>	IODINE test: Add <b>Positive test for s</b> From orange/bro Blue/black colou	
	Stomach Pancreas	Test for <b>fats</b>	EMULSION test: A ethanol, then ac water. <b>Positive result for</b> cloudy white suspension.	
	Small intestine Large intestine Rectum	Test for <b>protein</b>	BIURET test: Add solution <b>Positive result for</b> <b>protein</b> : Turns lila colour.	
	Anus	Inside	the small intestine t	
Organ	Function	are sm	all hair like structure villi. Villi are adapte	
Mouth	Chew food into smaller pieces	Provid	Provide a large surface a	
Oesophagus	Muscular tube which moves food to the stomach	<ul><li>Thin membrane</li><li>Good blood supply</li></ul>		
Stomach	Produces acid ( <u>HCl</u> ) to kill any bacteria. Muscular walls to churn food.			
Pancreas	Produces enzymes		Ne	
Small intestine	Digested food absorbed into the blood			
Large intestine	Water reabsorbed	A Barrow Home		

Faeces is stored

Faeces leave the body

Rectum

Anus

Y7 Biology T2- Diet & Health					
Food tests					
Test for sugars	Add Benedict's solution and heat. Positive test for simple sugars: Changes colour (blue to green/ yellow/ red).				
Test for <b>starch</b>	IODINE test: Add iodine <b>Positive test for starch</b> : From orange/brown to Blue/black colour.				
Test for fats	EMULSION test: Add ethanol, then add water. <b>Positive result for fats</b> : A cloudy white suspension .				
Test for <b>protein</b>	BIURET test: Add biuret solution <b>Positive result for</b> <b>protein</b> : Turns lilac colour.				
are sma called absorp •Provic •Thin m	he small intestine there all hair like structures villi. Villi are adapted for tion: le a large surface area hembrane blood supply				

Blood vessels

	Food Group	Effect	on the body	Example	
1	Carbohydrates Provide most er		es the body with the nergy	Bread, rice, pasta	
			l best provider of , insulation.	Butter, oils	
	Protein Growth		h and repair of cells	Meat, fish, eggs	
	Vitamins	Stay Healthy. Vit A= Eyes, Vit C= Immunity, <u>Vit</u> D= Bones		Fruit & Vegetables	
	Minerals Stay Healthy. Iron= blood, Calcium= Teeth & bones		Milk, meat		
	Fibre Preven		ts constipation	Cereal	
	Water	Hydrat reactio	es cells, chemical ns	Water	
	Lack of		Problems caus	ed	
	Energy Protein Fats		<ul><li>Weight loss,</li><li>Starvation</li><li>E.g. Marasm</li></ul>	lack of growth us	
			<ul> <li>Lack of growth</li> <li>Less repair of body tissues</li> <li>E.g. Kwashiorkor</li> </ul>		
			<ul> <li>Dry skin &amp; fatigue</li> <li>Less insulation</li> <li>Loss of menstrual cycle</li> </ul>		
١	Vitamins & minerals Overnutrition		- Bleeding gur	Lack of formation of bones Bleeding gums & loss of teeth E.g. Rickets, Scurvy	
			- Cardiovasuc	Overweight & obesity Cardiovasucular disease E.g. Type 2 diabetes	

Enzymes are chemicals that speed up reactions. They help us break down food molecules:



