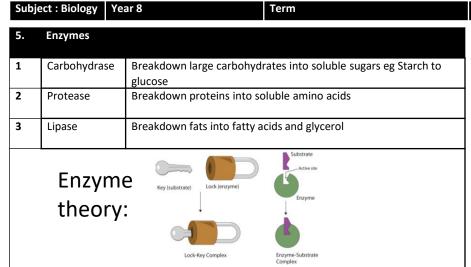
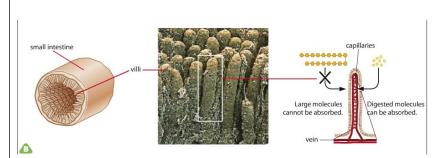
Sul	oject : Biology	Year 8		Term Autumn Topic	Food a	and Dige	d Digestion										
1.	Key Word	ls				3.	Food tests										
1	Kilojoule	Kilojoule		oule (or Calorie) is a unit of energy		٥.											
2	Diabetes	Diabetes		es is a lifelong condition that causes a person's blood	1												
			sugar le	sugar level to become too high. There are 2 main types of													
			diabete	diabetes: type 1 diabetes – where the body's immune system			Starch			(BIOCH	EMICA	AL (FOO	D) TES	rs)			
		attack		ks and destroys the cells that produce insulin				CHEMICAL	TESTS FOR	HOW TO CARRY OUT THE TEST	CHEMICAL	TESTS FOR	HOW TO CARRY OUT THE TEST	RESULT			
3 Digestion			When	ger food molecules are broken down into smaller ones		1				Starch	1.) Add the iodine solution	Turns		Protein	1.) Add Biuret's to the solution/	Turns	
		so		they can then be absorbed into the blood.		2	Protein		510	Sidicii	directly to the substance to	blue		11010111	suspension to be tested and	purple	
										1	solid or liquid wit	black with			look for a colour change.	with protein	
4	Egestion		Egestio	Egestion is the discharge (getting rid) of undigested material				IODINE SOLUTION	-	form) and look for a colour	starch	BIURETS SOUTION	2		2		
			(food),	from the digestive system via the anus.		3	Sugar		X		change.		×	_			
5	Peristalsis	3	Perista	Peristalsis is a series of wave-like muscle contractions that			Jugai				1.) Add	Turns		<u> </u>	1.) Add ethanol		
			moves	moves food to different processing stations in the digestive						Reducing Sugar	solution/	brick red with		Lipid	to the solution/ suspension to	Turns cloudy/	
			system	system.				不	Sugar	suspension to be tested.	reducing sugars		(known as the	shake	milky		
6	Enzymes	Enzymes		Biological catalysts- speed up chemical reactions inside the body			Fat (Lipd)	BENEDICTS		2.) Heat for 2 mins in a water	(green/ yellow/	Emulsi		The state of the s	with lipid		
7	Villi			ngular is villus) are small, finger-like structures in the				X	∥ 3	bath at boiling point and look for a colour	orange if less sugar	if test)		2.) Then add water and look for a colour			
			small ir	testine. They help to absorb digested food.				94		4	change.	present)		-	change.		
2. Balanced diet																	
	Food group	- • • • • • • • • • • • • • • • • • • •		·				Recommended	Docor	nmended	100 g of		100 g of		100 g of		
1	Carbohydra	ite Energy sour	ce	archy foods like bread, pasta, potatoes. Or sugary food				amount for	amou		0		oranges		butter		
	Ductoin	Cuavida and	Danair /	like cakes and sweet foods r (Meats, fish, beans, eggs, nuts				boys in KS3	girls in KS3		bread contain		contain		contain		
2	Protein	Growth and making new					energy	9270 kJ	7920	d	920 kJ		150 kJ		3000 kJ		
3	Fats	Energy store		Milk, cheeses, eggs and butter		-	carbohydrate	296 g	246 g		38.4 g		8.5 g		0 g		
		insulation		, , , ,			protein	42 g	41 g	10.3 g			0.8 g		0.5 g		
4	Vitamins	Keeping boo	ly healthy	Fruits and vegetables eg Vit C from citrus fruits			fat	86 g	72 g		2.5 g		0 g		81 g		
5	Minerals	Keeping boo	ly healthy	Fruits and vegetables eg Iron form red meat			fibre	18 g	15 g		6.5 g		2.1 g		0 g		
	File and /	Halaa fa add	- I C. II	Coroals fruits and vogotables		_	vitamin A	600 µg	600 µ	g	0 μg		5 μg		887 µg		
6	Fibre (Roughage)	Helps food t	•	Cereals, fruits and vegetables			vitamin C	35 mg	35 mg		0 mg		50 mg		0 mg		
	(Noughage)	absorbed.	<i>.</i>				calcium	1000 mg	800 m	ıg	28 mg		41 mg		15 mg		
7	Water	Needed for	all	Drinks			iron 11 mg		15 mg		3 mg 0.3		0.3 mg	0.3 mg (0.2 mg	
		chemical rea	actions to				1 ma (r	milligram) =	0.00	1 a : 1 i	ıa (micr	oarar	n) — 0		01a		
		occur inside cells					Tilly (I	rilligrari) —	0.00	' Y, ' F	ig (mich	ogran	,,, — U	.0000	ory.		
4.	Command W	ords															
1	Define	State or describe exactly the nature, scope, or meaning of something / establish the character of something; mark out the boundary or limits of something															
2	Summarise	Give a brief statement of the main points of something.															
3	Suggest	Used with another command word, e.g. Suggest an explanation. Suggest tells you that you need to apply your knowledge to a new situation, and in this case to give a possible explanation												on			
4	Why	Giving a reason or explanation to support the answer of the question.															
5	Interpret	Ascribe meaning.															
6	Evaluate	Look at the inform	nation in th	e question and bring it together to make a decision a	nd com	e to a c	onclusion with ev	vidence from th	ne ques	stion. Yo	u may be	asked [·]	to give a	perso	nal respon	se.	

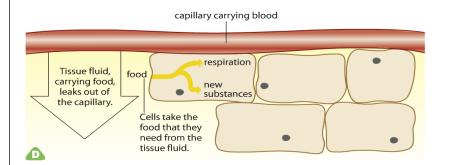


6. Absorption of food in the small intestine

Food absorption- soluble food molecules move from the small intestine villi and are absorbed into the bloodstream.



Absorbed food in blood is carried to all cells that need food molecules for different reasons eg growth; respiration etc



Digestive system
Putting food into your mouth is called Ingestion
In your mouth teeth grind and cut your food into smaller pieces
A liquid known as saliva is made to that makes food moist
The food is churned up with strong acid pH 1-2
Has no real job in humans but can become infected causing a condition known as appendicitis.
Takes food from mouth to stomach using muscle to squeeze food downwards
6.5 metres long in adults and where most absorption of food into the blood takes place.
Undigested food (fibre) ends up here where water is also removed back into the body and solid waste is produced- faeces.
Stores faeces before egestion occurs

Topic Food and Digestion

Part of the body where faeces is egested from

