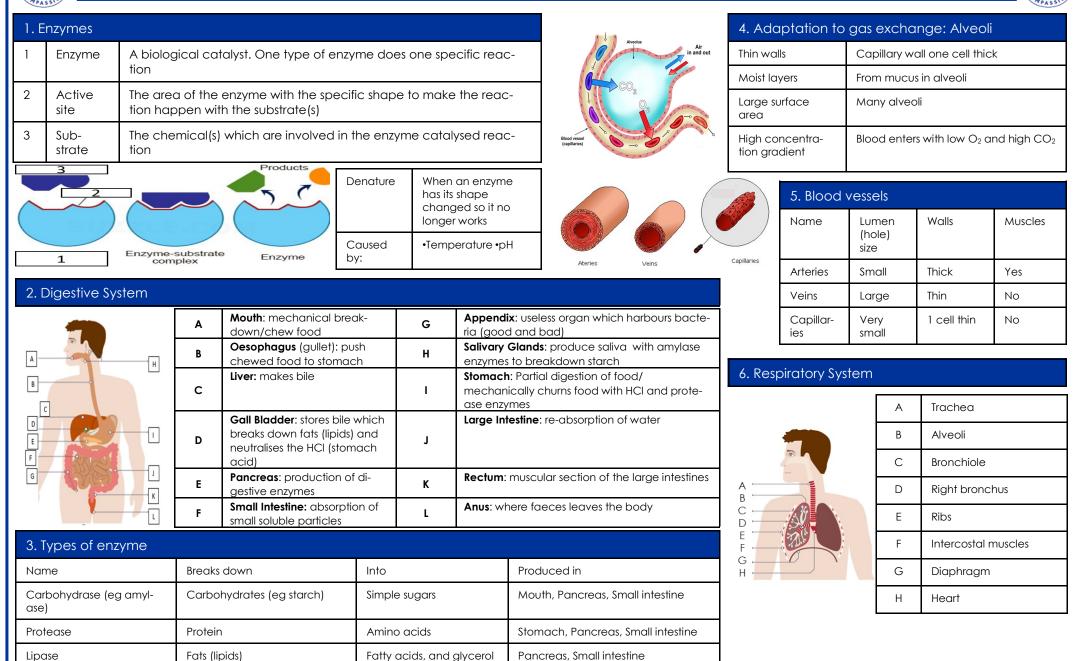


Year 10 Biology 2: Organisation Knowledge Organiser







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7.	7. The heart				
1	Pulmonary artery	Carries deoxygenated blood to the lungs			
2	Aorta	Carries oxygenated blood to the body			
3	3 Pulmonary vein Brings oxygenated blood from the I				
4	Left atrium	Pushes blood to left ventricle			
5	Heart valve	Prevents backflow of blood			
6	Left ventricle Pumps blood to body				
7	Right ventricle Pumps blood to lungs				
8	Right atrium Pushes blood into right ventricle				
9	Vena cava	Brings deoxygenated blood from body			

8. Blood	8. Blood		
Components	Function		
Red blood cell	Carries oxygen		
White blood cell	Fights infection		
Platelets	Blood clotting		
Plasma	Liquid that contain the other compo- nents and dissolved substances like urea		

ody	/	9. Coronary heart disease							
,	·	Corona	ry heart disease (CHD)	When fatty cle	material build	ds up and stops the flow a	of blood to the heart mus-		
		Corona	ry arteries	The arterie	The arteries that supply the heart muscle				
		Stent		A mesh tube used to keep the coronary arteries open					
		Statins		Drugs used	I to reduce blo	ood cholesterol preventin	g (CHD)		
photo-		Faulty valve			When the blood flows in the opposite direction through the heart. Will need replacing with biological or mechanical valve				
		Heart tro	ansplant	When a do	onor heart is us	sed to replace a faultly he	eart		
d carbon		Artificial heart		Short term	Short term mechanical heart used while waiting for a transplant				
				1	12. Facto	ors affecting transpire	ation		
		\rightarrow	THE FREE FREE F	2	Factor	increasing factor	Reason		
the	e leaf	F		3	Temper- ature	Increases transpira- tion	Water evaporates and diffuses faster		
			34	4	Humidity	Decreases transpira- tion	Less space around leaf for water to diffuse into		
			- SELS-	<u> </u>	Wind	Increases transpira- tion	Water evaporates and diffuses faster		
5	Transpir Transloo		Leaf X-Section		Sunlight	Increases transpira- tion	Stomata are open to let in CO ₂ so more water escapes		

10. Leaf structure and functions

	Name	Function
1	Epidermis	Protective layer
2	Waxy cuticle	Prevents water loss
3	Palisade meso- phyll	Contains a lot of chloroplasts. Site of photo- synthesis
4	Spongy meso- phyll	Full of air spaces to allow oxygen and carbon dioxide to diffuse
5	Vein	Contains xylem and phloem
6	Air space	Allows gases to pass through
7	Stomata	Hole for gases to move in and out of the leaf
8	Guard cells	Control the opening of stomata

11. Plant	11. Plant veins			
Name	Carries	Direction		
Xylem	Water and mineral ions	From roots to leaves	Transpiration	
Phloem	Sugar ('food')	From leaves to roots	Translocation	