Key word	Definition	
Double Circulation	One side of the heart pumps blood to the lungs while the other side of the	
	heart pumps blood to the body	
Valves	Ensure blood can only flow in one direction through the heart	
Labelling the	Remember the right is on the left and the left is on the right side	
heart		
Oxygenated	Blood containing an abundance of oxygen	
Aorta	Main artery which pumps blood from the heart to the body	
Vena Cava	Main vein which returns blood to the right atria of the heart from the body	
Pulmonary artery	Takes deoxygenated blood from the right ventricle to the lungs	
Pulmonary vein	Transports blood from the lungs to the left atrium	
Coronary arteries	Transport oxygenated blood from the aorta to the heart muscle	
Atheroma	Fatty deposit in a coronary artery that is the main cause of heart disease	7
Stent	A metal scaffold inserted into a blocked coronary artery to reopen and	١
	strengthen it after a heart attack	ł
Semi-lunar valve Semi-lunar valve Vena Cava Pulmonary artery Pulmonary artery Pulmonary being Right atrium Left atrium		
	Right Left	
	ventricle Ventricle Stent	
/	(IIII) Increased	

bicuspid valve

(mitral)

tricuspid

valve



Core Questions

- 1. What is the heart made of?
- 2. What is the job of the heart?
- 3. How many chambers does the heart have, name them.
- 4. What do red blood cells do?
- 5. What do white blood cells do?
- 6. What do platelets do?
- 7. What substances are found in blood plasma?
- 8. Name 3 types of blood vessels
- 9. Which blood vessel carries blood from the left ventricle to the body?
- 10. Which blood vessel takes blood from the right ventricle to the lungs?
- 11. Why are there valves in the heart?
- 12. Why do arteries have thick, muscular and elastic walls?
- 13. Why are capillaries only one cell thick?
- 14. Name 3 risk factors for coronary heart disease
- 15. What is atheroma/plaque?
- 16. What is a stent?

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Muscle (cardiac) Pumps blood around the body 4, left and right atria (at the top), left and right ventricles (at the bottom) Transport oxygen **Fight infections** Clot blood Glucose, amino acids, hormones, carbon dioxide, water Arteries, veins and capillaries Prevent backflow of blood Withstand high pressure generated when the heart contracts Short diffusion distance so oxygen & glucose can be delivered to cells effectively Eating too much animal fat, smoking, obesity Build up of fatty deposits in the coronary arteries A metal scaffold inserted into coronary arteries to reopen them & allow blood flow

Transport in Plants



Core questions

- 1. What are the 2 reactants in photosynthesis?
- 2. What are the 2 products of photosynthesis?
- 3. Write the word equation for photosynthesis
- 4. What is transpiration?
- 5. How is water transported up stems and into leaves?
- 6. How is sucrose transported around plants?
- 7. Where are root hair cells found and what is their job?
- 8. What are stomata and what is their job?
- 9. What weather conditions would speed up transpiration?
- 10. How are leaves adapted for photosynthesis?

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water and carbon dioxide glucose and oxygen carbon dioxide + water > glucose + oxygen Movement of water through plants Xylem Phloem Roots, absorbs water and dissolved mineral ions from the soil

Pores on the underside of leaves for gas exchange, allow CO2 in and water vapour out Warm and windy

Thin and flat so they have a large surface area,



Vocabulary

Atria, ventricles, aorta, vena cava, pulmonary artery, pulmonary vein, plasma, platelets, capillaries, pocket valves, coronary, plaques, stent, risk factors

Photosynthesis, Transpiration, stomata, guard cells, Xylem, phloem, Osmosis, starch, iodine, glucose, Benedict's reagent, rate, limiting factor, Nitrates, magnesium ions