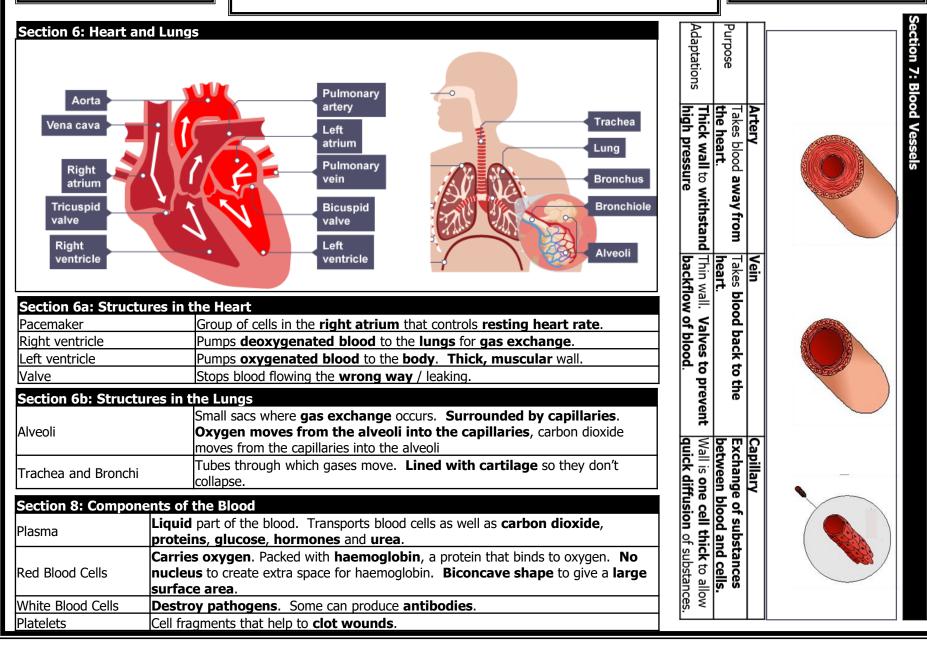
KNOWLEDGE



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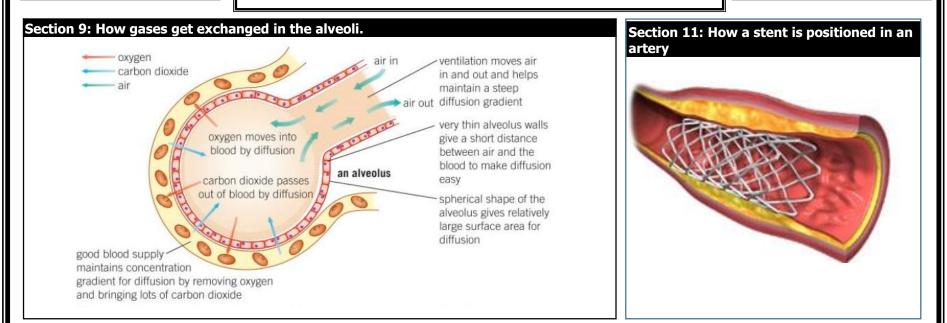


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Section 10: Heart Disease			
Coronary Heart Disease	Build up of fatty material in coronary arteries. Can lead to a blood clot and a heart attack.		
Treatment	What it is	Advantage	Disadvantage
Stent	Wire mesh that opens up a blocked artery.	Keeps artery open. Low-risk surgery.	Fatty material can rebuild.
Statin	Drug that reduces cholesterol.	Reduces fat being deposited in arteries.	Side effects e.g. liver damage.
Heart transplant	Replacement heart from a donor.	Long-term.	Major surgery. Could be rejected.
IAITITICIAL DOALT	Man-made heart used while waiting for a transplant.	Not rejected. Keeps patient alive.	Short life-time. Battery has to be transported. Limited activity.
Mechanical heart valve	Mechanical replacement of faulty heart valve.	Can last a life-time.	Can damage red blood cells.
Biological heart valve	Biological replacement of faulty heart valve.	Don't damage red blood cells.	Valve hardens and may need replacing.

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Palisade mesophyll

Spongy mesophyll

Guard cells

Stoma

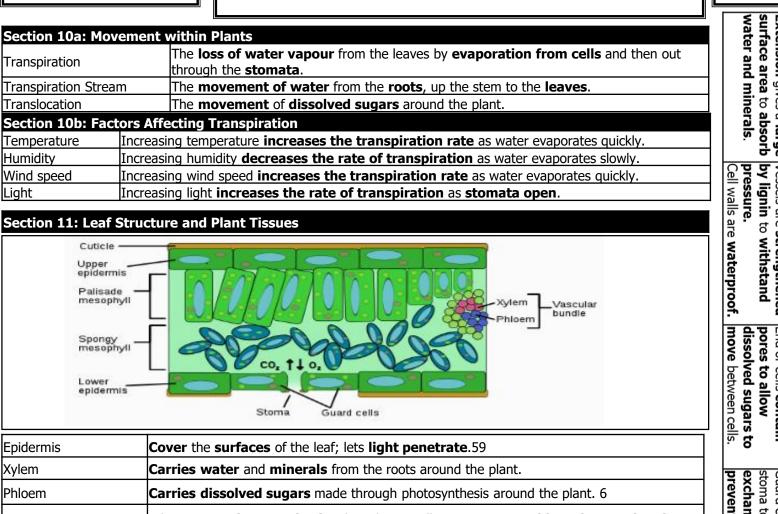
light.

Cells that open and close stomata.



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ORGANISER Section water and minerals. surface area to Root Extension gives ha 12: ၉ Cell absorb ۵ **Adaptations for Movement Within** large by lignin to Xylem Vessels are strengthened Cell walls are waterproof pressure (00000000000000) withstand move dissolved sugars to pores to allow Phloem End of cells **contain** Plants between cells Guard Guard prevent water loss exchange or close to stoma to allow gas t cells Cells Where most photosynthesis takes place. Cells contain many chloroplasts. Absorbs can **open** the and Stoma



Some photosynthesis. Has **air spaces** for **diffusion** of CO₂ and O₂.

Opening that allows **CO**₂ and **O**₂ to **diffuse** in and out of the leaf.