Cardiovascular system

Reading Pages 30-35 higher, pages 29-34 foundation

Knowledge

- 1. What are the main two functions of the lungs?
- 2. What are the alveoli?
- 3. By which method does oxygen enter the bloodstream from the alveoli?
- 4. Name the structures labelled on the diagram below:

z	Y
w	x

w
x
Υ
z

- 5. What is the group of cells in the right atrium that controls the heartbeat called?
- 6. Name the four components of the blood
- 7. Complete the grid below:

Feature	Arteries	Veins
Direction of blood flow	Away from the heart	
Contain valves?		
Muscular wall		Thin
Elasticity		
Size of lumen		

- 8. What is a 'stent'?
- 9. Name the chemical formed in red blood cells when oxygen is picked up.
- 10. What are statins?

<u>Application</u>
1. Describe the path air takes when breathed in to the lungs.
2. <u>Describe</u> two adaptations of the alveoli and <u>explain</u> how each increases the efficiency of gas exchange
3. Explain why the heart is known as a 'double pump'
4a) Explain why a person with fatty deposits in the coronary artery may have a heart attack.
4b) Explain how a stent lowers the risk of a heart attack in a person with fatty deposits in the coronary arteries
E. Evaluate the use of stating in treating high shelestoral levels. Include both advantages and disadvantages
5. <u>Evaluate</u> the use of statins in treating high cholesterol levels. Include both advantages and disadvantages.
<u>Extension</u>
1. Explain why a person with anaemia (not enough red blood cells) would feel tired all the time.