

Circulatory and Respiratory Systems Review

SPADES



1. Name 3 Functions of the Circulatory System
2. What 3 components of blood were observed under the microscope?
3. What vessels carry blood AWAY from the Heart?
4. What chamber of the Heart receives deoxygenated blood from the tissues?
5. What (node) acts as the “pacemaker” for the Heart?
6. Which organ of the lymphatic system acts as a “blood reservoir”?
7. Why is oxygen required by cells of the body?
8. What is the purpose of the cilia on the cells that line the trachea?
9. Define the term “tidal volume”
10. How is oxygen predominantly carried within the circulatory system?
11. Describe 2 reasons why saliva is important in digestion.
12. Where does most digestion occur?

DIAMONDS



- 1. What is the function of White Blood Cells?**
- 2. Name one feature of arteries that distinguishes them from veins.**
- 3. Name the large artery into which blood is pumped from the left ventricle.**
- 4. Name the set of nerve fibres that cause contraction of the ventricles.**
- 5. How does the DURATION of a heart contraction change in response to exercise?**
- 6. Name one factor on which blood pressure depends.**
- 7. What component of the Respiratory System is the site of gas exchange between environment and blood?**
- 6. Why does the trachea have rings of cartilage?**
- 7. What two muscle systems are involved in initiating inhalation?**
- 8. Name one way in which carbon dioxide is carried within the blood.**
- 9. Name one digestive fluid released by the stomach and describe its role**
- 10. What organ of the digestive system produces bile?**

CLUBS



- 1. What is the function of platelets?**
- 2. What feature of veins prevents backflow of blood as it travels back toward the heart?**
- 3. What chamber of the heart pumps blood into the pulmonary arteries?**
- 4. How does stimulation from the parasympathetic nervous system affect heart rate?**
- 5. What is the term that describes blood pressure during contraction?**
- 6. What is the function of the epiglottis?**
- 7. What type of blood vessels provide the circulatory system with the greatest surface area for diffusion?**
- 8. What stimulates the initiation of 'breathing'?**
- 9. Define the term, 'vital capacity'**
- 10. What component of the respiratory system form small branches off of which alveoli are found?**
- 11. In which organ of the digestive system does most of the water absorption take place?**
- 12. What 2 structural features of the small intestine increase surface area for absorption?**

HEARTS



1. What is the primary function of red blood cells?
2. What is the function of the molecule, Haemoglobin?
3. What condition may a person experience if one of his/her coronary arteries became blocked?
4. What may a person experience if an artery going to his/her brain is blocked?
5. What chamber of the heart initially receives oxygenated blood returning from the lungs?
6. What affect does the sympathetic nervous system have on heart rate?
7. What is the term given to blood pressure during relaxation of the heart?
8. What is the clear liquid that bathes the tissues and participates in a number of immune functions?
9. What component of the respiratory system contains the vocal cords?
10. Why does oxygen move from the alveoli into the blood?
11. What muscles regulate the movement of food into and out of the stomach?
12. Which organ of the digestive system releases disaccharidases that complete the digestion of carbohydrates?