**Grade 8 Science Respiratory & Circulatory System Review Questions**

**Answer the following questions in complete sentences on a separate sheet of paper.**

**Respiratory System**

1. Describe the path of air from the mouth to the alveoli.

(include bronchi, alveoli, trachea, mouth and nose)

1. Draw one alveoli and one capillary wrapped around it.

Draw arrows to show which way the oxygen is moving and which way the

carbon dioxide is moving. Assume that the blood has just returned from

the body cells.

**Circulatory System**

1. What are the three main functions of the circulatory system? Three components of the circulatory system?
2. The heart is considered to be a double pump. Why?
3. How many chambers does the heart have? State the names of each chamber. What divides the heart into two sections? Why is this important?
4. a) Which side of the heart receives deoxygenated blood? Oxygenated blood?  
   b) Which side of the heart pumps blood to the body? Which side of the heart pumps to the lungs?
5. a) What main blood vessel transports deoxygenated blood from the heart to the lungs?  
   b) What main blood vessel transports oxygenated blood from the lungs back to the heart?  
   c) What main blood vessels transports deoxygenated blood to the heart from the upper and lower body?
6. a) State the 3 main differences between arteries and veins.  
   b) What is the main role of the capillaries?  
   c) Why are the walls of the capillaries so thin?
7. a) What is the function of valves?  
   b) Label the four locations of the valves in the heart.  
   c) Which type of blood vessel has valves? Why?
8. Deoxygenated blood refers to blood \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_oxygen in it.

Oxygenated blood refers to blood that \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_oxygen it.

1. Write number on the lines beside each statement to correctly show the path of the blood through the body, starting from deoxygenated blood enters the heart from the superior and inferior vena cavas.

**1** Deoxygenated blood enters the heart from the superior and inferior vena cavas.

Oxygenated blood in the left ventricle is pumped out of the heart and into the aorta.

Deoxygenated blood goes from the right atrium goes into the right ventricle.

Oxygenated blood leaves the arteries and enters the body capillaries.

The blood exchanges the oxygen for carbon dioxide with body cells.

Blood enters the lung capillaries where it exchanges carbon dioxide with oxygen in the alveoli.

Deoxygenated blood in the right ventricle is pumped out of the heart and into the pulmonary artery.

Oxygenated blood travels through arteries to all parts of the body.

Deoxygenated blood travels through veins back to the heart.

Oxygenated blood travels through the pulmonary vein.

Oxygenated blood moves into the left ventricle.

Oxygenated blood enters the left atrium.

1. a) Name the four components of blood and state their functions.  
   b) Which component is most abundant in blood?

**Blood Pressure & Heart Health**

1. a) Define blood pressure.  
   b) State the 5 factors that affect blood pressure.  
   c) Which instruments are used to measure blood pressure?
2. What are ways in which people can reduce their chances of having high blood pressure?
3. State the difference between systolic and diastolic pressure.

**Immune System**

Other Important Items to Review that may not be on this review

\*labelling heart

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Review Topics

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Test Date: Friday January 24