



**Our Vision:** Innovative education for a knowledge-based, pioneering, and global society.

**Department of Science 2018 - 2019**  
**Second Term: Worksheet 2**  
**L-1.6 The Circulatory System & L-1.7 The Respiratory system**

Grade 6.....

Name:.....

Date: ...../...../2019

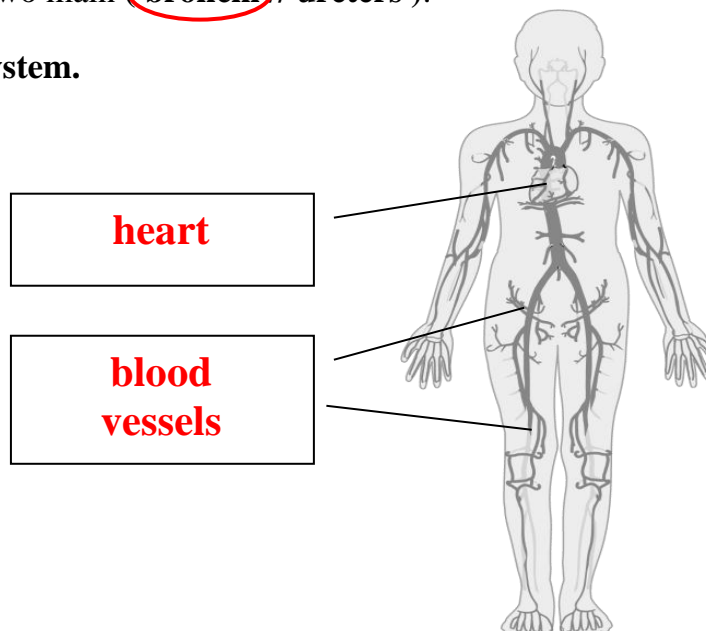
**Q.1. Name the following.**

- The main parts of the circulatory system: heart, blood vessels and blood
- It acts like a door to control one-way flow of blood: valve
- Muscle that controls the expansion and contraction of the lungs: diaphragm
- They help to clean up the air we breathe in: cilia and mucus
- It is a bendy tube that allows the passage of air: trachea / windpipe
- Grape-like or balloon-shaped tiny air sacs in the lungs: alveoli
- They warm the air entering your lungs: blood vessels in the nasal cavity

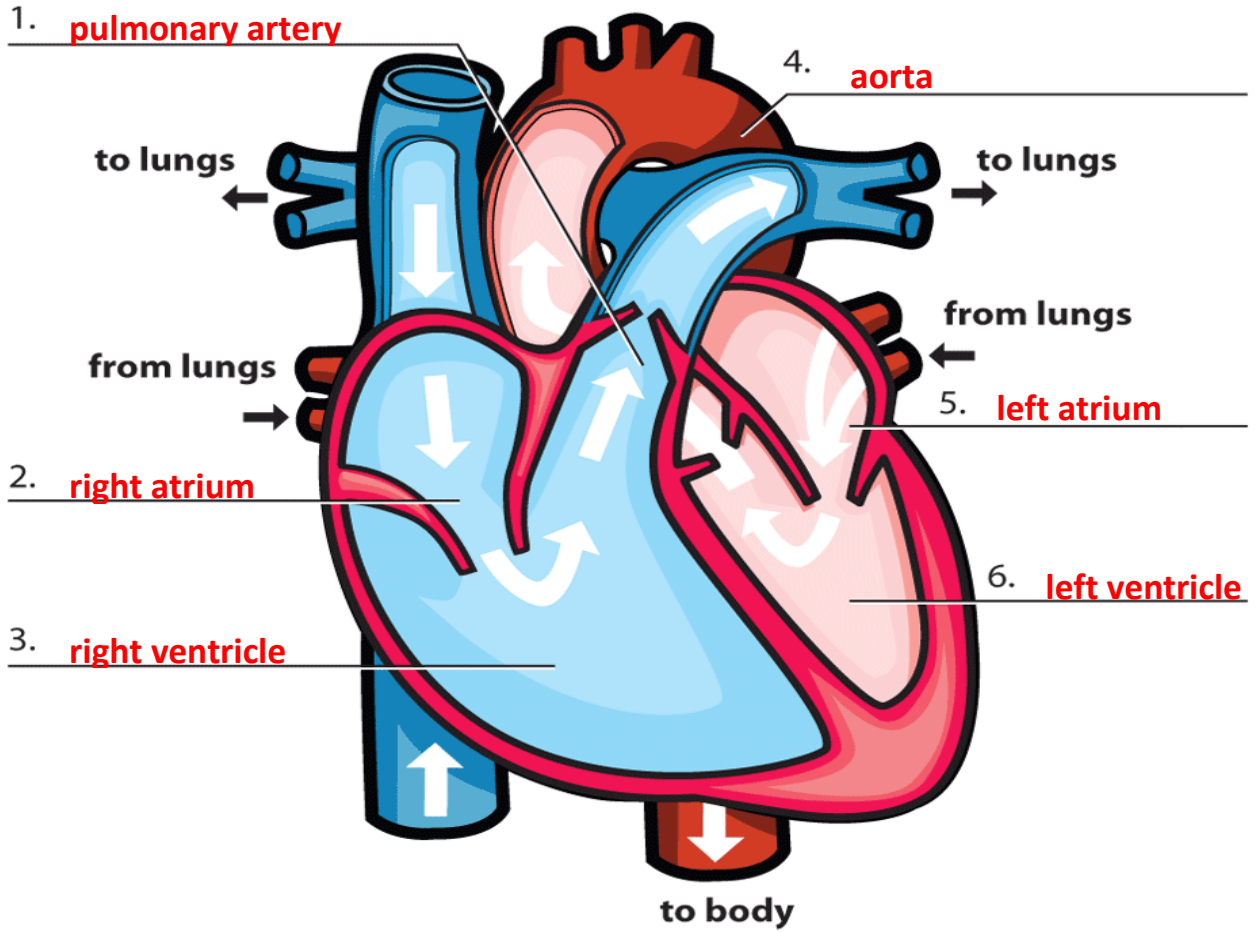
**Q.2. Choose the correct answer.**

- The heart has ( **three** // **four** ) chambers.
- The sticky liquid that traps foreign particles in the respiratory system is called ( **mucus** // **lung** ).
- Tiny hair-like projections that move microbes and debris up and out of the airways are called ( **vessels** // **cilia** ).
- The trachea branches into two main ( **bronchi** // **ureters** ).

**Q.3. Label the circulatory system.**



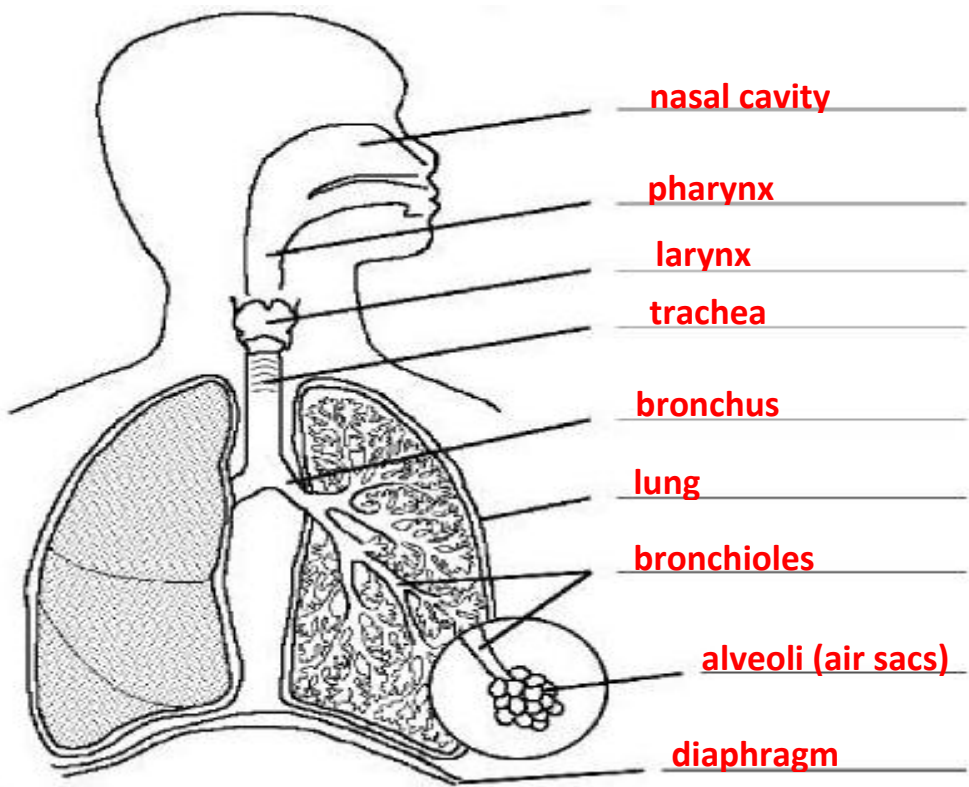
**Q.4. Label the heart.**



**WORD BANK**

left ventricle	right atrium	pulmonary artery
right ventricle	left atrium	aorta

**Q.5. Label the respiratory system.**



**Q.6. Answer the following questions.**

1- What are the main functions of the circulatory functions?

**The circulatory system pumps blood to 1) transport nutrients, oxygen and hormones to cells throughout the body, 2) remove metabolic wastes (carbon dioxide, urea, etc.) and 3) regulate body temperature.**

2- What are the main functions of the respiratory system?

**The main function of the respiratory system is to inhale oxygen and exhale carbon dioxide.**

3- What are alveoli?

**Alveoli are tiny, grape-like air sacs found at the end of bronchioles which allow for rapid gaseous exchange in the lungs.**

4- What is the relationship between the circulatory and respiratory systems?

**The circulatory and respiratory systems work together to circulate blood and oxygen throughout the body. The circulatory and respiratory system are connected at the lungs. The circulatory system needs oxygen from the lungs to pump the blood around the body and the respiratory system supplies the oxygen and gets the oxygen from the air into your bloodstream.**

5- Which boy will have a higher pulse rate and why?

**The boy running will have a higher pulse rate than the boy who is walking. This is because when we do more exercise the muscles need more oxygen and nutrients and therefore the heart beats faster to pump blood faster to supply this food and oxygen.**

