

The Role of Respiration:

1. Which gases are exchanged by the respiratory system?
2. Why is oxygen needed by our cells?
3. Why do respiratory systems have a large surface area?
 - Use the following respiratory organs to complete the table for each animal.
 - Lungs, Gills, Skin, Small Tubes, Skin & Lungs

Animal	Frog	Earthworm	Human	Grasshopper	Fish
Respiration					

The Human Respiratory System:

1. What is the function of each of the respiratory organs?
 - a. Trachea
 - b. Bronchi
 - c. Lungs
 - d. Alveoli
2. Alveoli (tiny air sacs) provide a great surface area for gas exchange in each lung. About how much surface area does each lung have relative to a basketball court?
3. How is carbon dioxide formed in your body?
4. How does your body get rid of carbon dioxide?
5. Relative to breathing what happens when your diaphragm relaxes?
6. Relative to breathing what happens when your diaphragm contracts?

Problems of the Respiratory System:

1. Why is carbon monoxide poisonous?
2. What causes pneumonia?
3. What is emphysema?
4. A spirometer measures lung capacities. Why might it be important to know lung capacities?

The Role of Excretion:

1. Describe the size and job of the human kidneys.
2. Why do we need to remove wastes from our body?
3. What is the job of the ureters?
4. What is the job of the urethra?
5. Name three things the kidneys filter out of the blood.
6. What is the name of the nitrogenous waste produced by the kidneys and released from the bladder?
7. What are the three main jobs of the skin?
8. What are two possible causes of kidney damage?