Human Respiratory System Webquest
Go to the following site and write your answers below

http://goldbergbiology.concordcarlisle.wikispaces.net/Human+Respiratory+System+Webquest

Part A - Activity 22A: The Human Respiratory System

1. What is the place where the paths of food and air cross?

2. What is the structure that produces voice sounds?

3. What is the location of the respiratory surface, where gases are actually exchanged?

4. What are the fine tubes that carry inhaled air to the alveoli?

5. What are the tubes that carry exhaled air from the lungs to the trachea?

6. What is the sheet of muscle that helps air move in and out of the lungs?

7. What is the windpipe?

8. What is the place where incoming air is filtered, warmed, and humidified?

9. What is the place where inhaled oxygen enters the circulatory system?
Part B - What Makes Me Sneeze?

1. Explain why we sneeze.

2. What is a "photic sneezer?"

Part C - Your Respiratory System

1. Explain how our bodies keep food from entering the lungs (answer found near center of page).

2. Why do people tend to get more colds in the winter (answer found near bottom of page).

Part D - Activity 22B: Transport of Respiratory Gases

1. What is hemoglobin and what does it do (slide 1)?

2. How do oxygen molecules reach tissue cells from red blood cells (slide 1)?

3. What happens to carbon dioxide molecules that are produced by tissue cells (slides 2 & 3)?

4. How do red blood cells pick up more oxygen (slide 4)?
Part E - The Human Respiratory System

1. Describe the pathway air takes through the respiratory tract.

2. Describe how breathing takes place, including the muscles involved.

3. How is breathing controlled, both centrally and locally?

4. Briefly describe three diseases of the lungs, excluding asthma.
These may not work on your computer so we will do them in class

Part F - Inflammation in the Airways: Understanding How Asthma Attacks Occur

1. What parts of the respiratory system are affected during an asthma attack?

2. What is happening to these parts during an asthma attack?

Part G - The Problem With Asthma in the World/USA

1. What are the three possibilities that Dr. Roger Bone suggests could account for higher rates of asthma worldwide?

2. What sub-populations are affected by asthma disproportionately?

Credits

Part A
<http://media.pearsoncmg.com/bc/bc_campbell_concepts_5/media/assets/interactivemedia/activityshared/ActivityLoader.html?c6e442a04224%20The%20Human%20Respiratory%20System>

Part B & C
Rasure. "Respiratory System WebQuest." Mr. Rasure's Science Class Web Site. 27 Oct 2009
<http://www.tylerisd.org/schools/moore/Teachers/rasurec/Webquest/respiratory.html>

Part D
<http://media.pearsoncmg.com/bc/bc_campbell_concepts_5/media/assets/interactivemedia/activityshared/ActivityLoader.html?c6e442a05422B%20Transport%20of%20Respiratory%20Gases>

Part E
<http://users.rcn.com/jkimball.ma.ultranet/BiologyPages/>

Part F & G