

Study Guide: The Respiratory System

1. List and describe the 4 Respiratory Processes.

Pulmonary Ventilation:

External Respiration:

Transport of Respiratory Gases:

Internal Respiration:

2. Complete the chart:

	Conduction Zone	Respiratory Zone
Location		
Structure		
Function		

3. List the structures of the respiratory tract in order. Start with the nose and end in the alveoli.
4. What 3 structural changes occur in the bronchial tree as the bronchi get smaller?

5. Name and describe all tissues and cells found in the **respiratory membrane**. Include the function of each:

Type I cells

Basement

Pulmonary Capillaries

Type II cells

Elastin fibers

Alveolar pores

Alveolar macrophages

6. Which respiratory structure is also known as the “voicebox?”
7. Which respiratory structure is also known as the “windpipe?”
8. What membrane transport **process** allows for gas exchange at the alveoli?
9. Which arteries provide blood supply to the lung tissue?
10. Describe the following homeostatic imbalances of the respiratory system:
- Pleurisy**
- Emphysema**
- Bronchitis**
- Asthma**

11. Be able to label Fig. 22.3

12. Describe the Digestive protections

Pleural Membranes

Parietal Pleura

Visceral Pleura

Other protective features:

Dust cells

Mucus

Cilia

Hairs