

BIOLOGICAL STUDY: RESPIRATORY SYSTEM

Subject:
Date:

[ILLUSTRATION AREA: ANATOMY OF THE LUNGS]

ORGAN / STRUCTURE	PRIMARY BIOLOGICAL FUNCTION	TISSUE CHARACTERISTICS
Nasal Cavity	Filtration, warming, and humidification of inhaled air.	Ciliated mucosa
Pharynx / Larynx	Pathways for air; protection of the trachea; vocalization.	Cartilaginous / Mucous membrane
Trachea	Main conduit to the lungs; debris expulsion via cilia.	C-shaped cartilage rings
Bronchi & Bronchioles	Distribution of air throughout the pulmonary lobes.	Smooth muscle & epithelium
Alveoli	Site of gas exchange (O2 into blood, CO2 out).	Simple squamous epithelium
Diaphragm	Contraction creates pressure gradient for inspiration.	Skeletal muscle tissue

STUDENT OBSERVATIONS / PATHOLOGY NOTES: