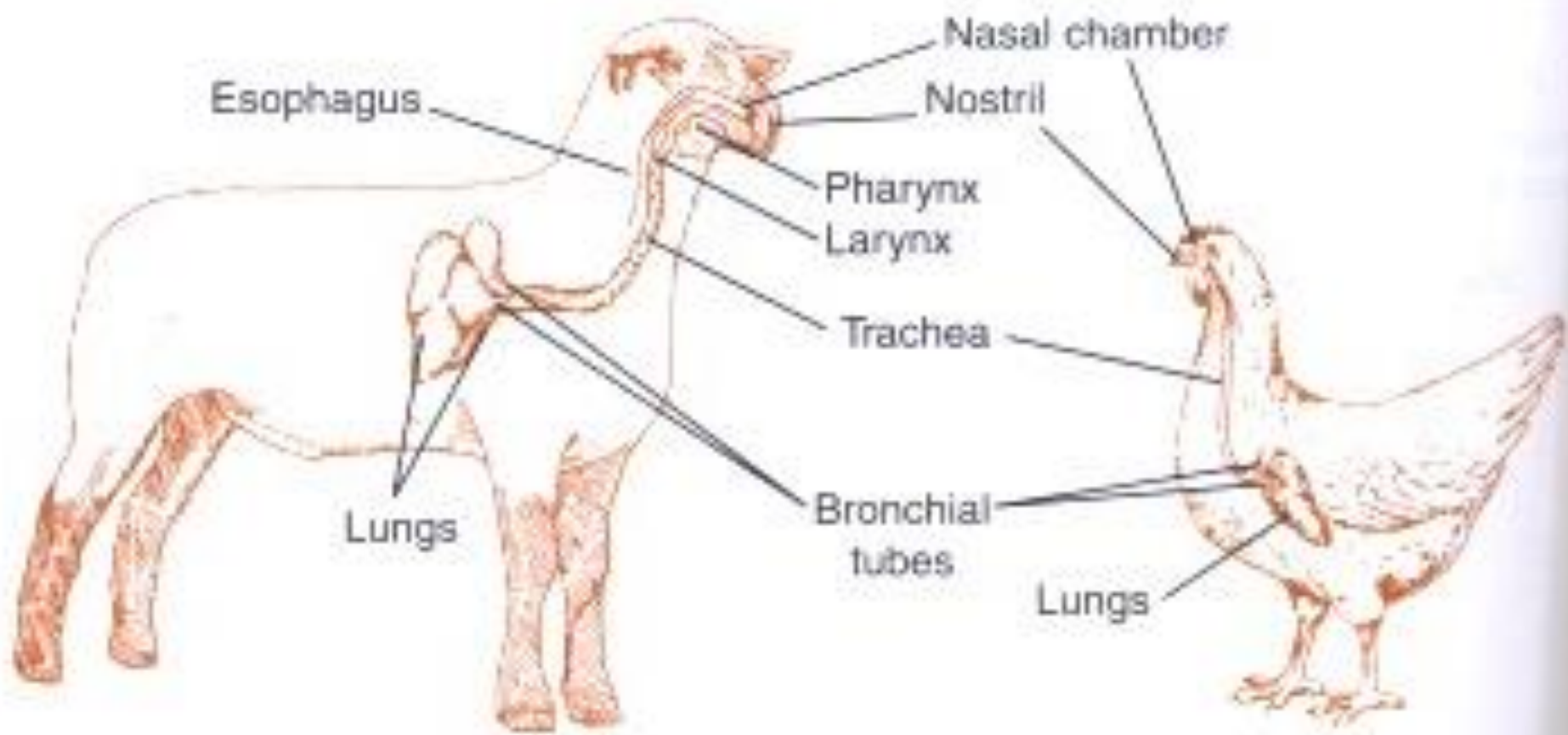


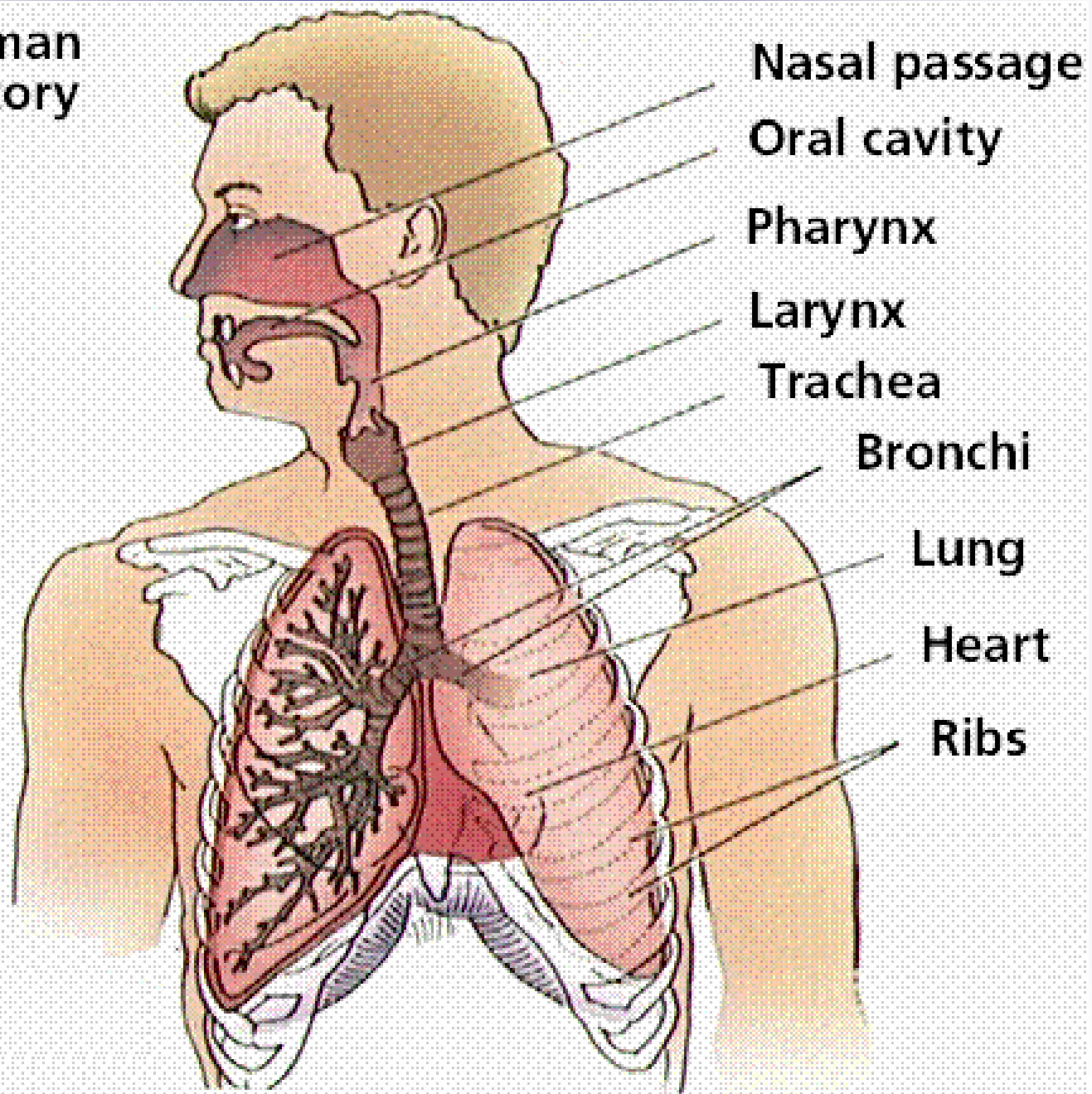
# **Unit 3, Lesson 6: The Respiratory System**

# Purpose of the Respiratory System

- Provide oxygen to the tissues
- Remove carbon dioxide from the body
- Temperature control, elimination of waste and voice production
- Clean air before it enters the inner body



# The Human Respiratory System



# Components of the Respiratory System

- Nostrils: external openings
- Nasal Cavity: connected to mouth by a hard and soft palate
- Pharynx: Common passageway for food and air, but not at the same time.
- Epiglottis: a valve-like structure that shuts when swallowing food.
- Larynx: voice box for animal, controls breathing, keeps objects out of lungs

# Components of the Respiratory System, Con't.

- Trachea: wind pipe, consists of cartilage rings, similar to vacuum cleaner hose
- Bronchi: Two tubes from trachea, each side enters a lung
- Bronchioles: Small tubes from the bronchi
- Alveoli: Smallest bronchioles, exhausts carbon dioxide
- Diaphragm: sheet of muscle located beneath the lungs that separates the chest cavity from the abdominal cavity.

# Components of the Respiratory System, Con't.

- Lungs:
  - Two, elastic, spongy material that expand when filled with air
  - Cone shaped and divided into lobes
  - Lungs will always float in water
  - Primary purpose of the lungs is gas exchange