

Respiration PAL worksheet

- 1) Joe made the joke that he wants to inhale some M&M's. Unfortunately, Joe actually "inhaled" one of them while distracted. Consequently, he began coughing vigorously, attempting to expel the M&M. Considering the anatomical variances between the right and left primary bronchi, in which primary bronchus is the M&M's likely lodged? Which anatomical feature should have originally prevented the M&M's from entering the incorrect passageway?
- 2) Draw a concept map illustrating the pathway of air as it flows into a naris and down into an alveolus in the left lung. Be sure to include the regions of the pharynx.

This list may be helpful:

- alveolar duct
- alveolar sac
- alveolus
- bronchioles
- laryngopharynx
- larynx
- external nares
- nasal meatuses
- nasal turbinates/conchae
- nasopharynx
- oropharynx
- primary bronchi
- respiratory bronchioles
- respiratory membrane
- secondary bronchi
- terminal bronchioles
- tertiary bronchi
- trachea

- 3) During allergy season or a sinus infection, some people report that the front part of their face feels heavier than normal. Describe how and why this might occur in the epithelial lining of the nasopharynx and sinus cavities.
- 4) Why is breathing through the nose more efficient than breathing through the mouth in terms of air filtration and conditioning?
- 5) What is the function of the mucociliary escalator in the respiratory system?
- 6) Which structure in the respiratory tract covers airways with a mucous membrane to warm and humidify incoming air?