**The Respiratory System**

**The Gas Exchange System**

* Consists of: \_\_\_\_\_\_\_\_\_\_\_\_, diaphragm, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, larynx and pharynx
* Primary function: bringing \_\_\_\_\_\_\_\_\_\_\_\_\_ into the body and help remove \_\_\_\_\_\_\_\_\_\_\_\_ gases from the body



* **Inhalation (\_\_\_\_\_\_\_\_\_\_\_\_\_)**: contraction of diaphragm causes lungs to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ in size which creates a vacuum so air is pushed \_\_\_\_\_\_\_\_\_\_ the lungs.
* **Exhalation (\_\_\_\_\_\_\_\_\_\_\_\_\_\_)**: diaphragm relaxes which causes the lungs to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ in size and increase in pressure which pushes the air \_\_\_\_\_\_\_\_\_\_ of the lungs
* When \_\_\_\_\_\_\_\_\_\_\_\_, respiration \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to bring more oxygen into the body. When \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, respiration will \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ since less oxygen in required by the body.

**Pathway of Air**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_(mouth) → pharynx → larynx → \_\_\_\_\_\_\_\_\_\_\_\_\_\_ → bronchi → bronchioles → \_\_\_\_\_\_\_\_\_\_\_\_\_\_**

[**http://www.youtube.com/watch?v=HiT621PrrO0&feature=related**](http://www.youtube.com/watch?v=HiT621PrrO0&feature=related)

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Cavity** – air is warmed and moistened

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_** – connects the \_\_\_\_\_\_\_\_\_\_\_\_ and oral cavities with the esophagus and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** – located at the top of the trachea, this is where the vocal chords (\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_) is located

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** – thin \_\_\_\_\_\_\_\_\_\_\_\_ on top of the trachea that keeps food and water from entering the trachea.

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** – tube with rings of cartilage (can be felt in front of neck) that transport air between the \_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_.

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** – large tubes that connect the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to the bronchioles

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** – smaller tubes that branch off and connect the bronchi with the \_\_\_\_\_\_\_\_\_\_\_\_\_\_

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_** – tiny \_\_\_\_\_\_\_\_\_\_ in the lungs that are surrounded by capillaries where air \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ occurs between the lungs and blood. \_\_\_\_\_\_\_\_\_\_\_\_\_\_ diffuses into the blood and waste gases such as \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ diffuse into the alveoli to be exhaled.