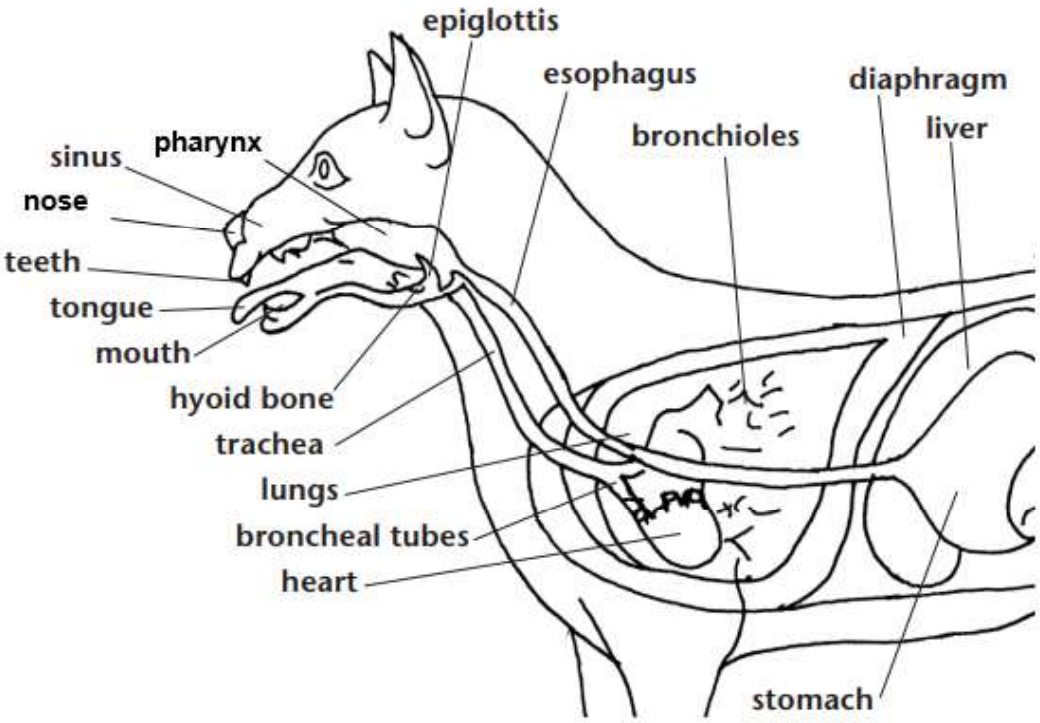
Cat Respiratory and Circulatory Systems Worksheet – Answer Key



Match the internal anatomy with the correct number:

__2__ Nose

__4__ Mouth

__6__ Trachea

__7__ Pharynx

__3__ Epiglottis

__8__ Lungs

__1__ Bronchioles

__5__ Diaphragm

Fill in each blank with the correct answer.

1. The primary function of the respiratory system is to transfer **oxygen** from **air** to the **blood** and remove **carbon dioxide** from the **blood** and carry it out of the **body** to the **air**.

2. Air travels through the **nose, mouth, pharynx** and **trachea** before entering the **lungs** where the exchange of **oxygen** and **carbon dioxide** occurs.

3. The **diaphragm** is the muscle that separates the respiratory system from the rest of the body. It works with other muscles to produce **inspiration** (breathing in) and **expiration** (breathing out).

4. In addition to breathing, the respiratory system also does what? **Regulates the body temperature**

5. The circulatory system delivers **oxygen** and **nutrients** to the cells of the body and removes **waste**.

6. The heart has **4** chambers. The three types of blood vessels are **arteries, veins** and capillaries. **Arteries** carry blood from the heart, **veins** carry blood to the heart and capillaries are where nutrients and **oxygen** are exchanged for **waste products** from the individual cells.

7. The components of blood are **plasma, red blood cells, white blood cells and platelets**. The red color of blood comes from **hemoglobin** the component that carries **oxygen** and **carbon dioxide.**

8. The spleen is an organ that filters blood, **destroys** old blood cells, stores red blood cells and **produces** some white blood cells.