**2.3 THE CIRCULATORY AND RESPIRATORY Systems**

 **Name:**

 **Date:**

 **Block:**

**The Respiratory System**

* **respiratory system**: the body system that supplies blood with \_\_\_\_\_\_\_\_\_\_\_\_\_ and removes \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_ from the blood.
* The two **\_\_\_\_\_\_\_\_\_\_** are important organs in this system
	+ - They bring in oxygen for \_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
		- They \_\_\_\_\_\_\_\_\_\_\_\_\_\_ carbon dioxide.
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is the process that brings oxygen into your nose or mouth.
* When you inhale, air is filtered by tiny hairs called \_\_\_\_\_\_\_\_\_\_.
	+ - Cilia and mucus \_\_\_\_\_\_\_ dirt and other particles.
		- ****The particles are either pushed back out the \_\_\_\_\_\_\_\_\_\_\_\_\_ or flushed down into the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ system.
* Air passes through your **\_\_\_\_\_\_\_\_\_** (voice box) and continues down your **\_\_\_\_\_\_\_\_\_\_** towards your lungs.
* At the base of the trachea are two tubes called **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**.
* Bronchi branch into smaller air tubes called **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**.
* Finally, the air reaches tiny, thin-walled sacs called **\_\_\_\_\_\_\_\_\_\_\_\_\_**.

**Gas Exchange in the Alveoli**

* There are millions of alveoli at the ends of the bronchioles, and this is where **\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** takes place.
	+ - Oxygen and carbon dioxide move back and forth between the \_\_\_\_\_\_\_\_\_\_ and the surrounding \_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_.



**Smoking**

* Smoking may cause both \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ disease and \_\_\_\_\_\_\_\_\_\_\_\_ disease.
* Respiratory diseases could include \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_.
	+ Emphysema causes the alveoli walls to lose their \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. This may make breathing very difficult.
* Smoking also destroys the \_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_ in your respiratory system.