**Respiratory System**

**Respiration**

* Process by which a body gets and uses oxygen and releases carbon dioxide and water.
* Divided into two parts.
  + Part 1: **breathing**
    - involves inhaling and exhaling.
  + Part 2: **cellular respiration**
    - involves chemical reactions that release energy from food.

**Respiratory System**

* **Made up of:** the nose, throat, lungs and passageways that lead to the lungs.
* **Primary function:** totake in oxygen and expel carbon dioxide.

**Breathing**

* Air is sucked into and forced out of the lungs during breathing by the diaphragm.
* The diaphragm is the dome-shaped muscle beneath the lungs.

**Cellular Respiration**

* Oxygen is inhaled and is carried in red blood cells to tissue cells.
* Cells use the oxygen to release chemical energy.
* During the release of energy, carbon dioxide and water are produced that are exhaled by the lungs.

**Respiratory Disorders**

* Asthma
* Emphysema
* Severe Acute Respiratory Syndrome (SARS)

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