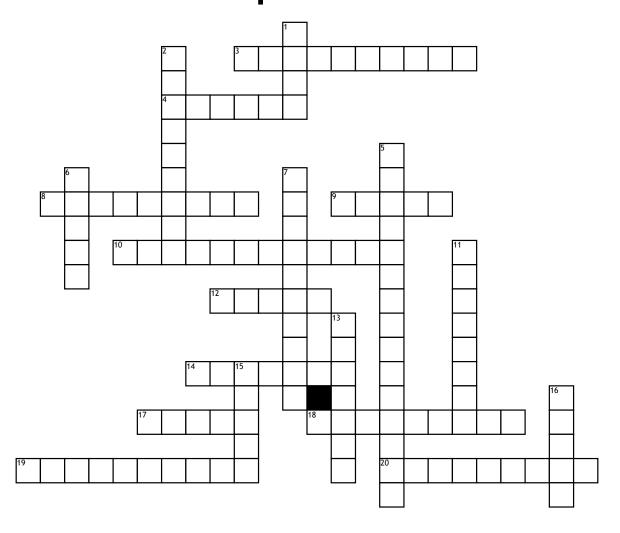
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## Respiration



## **Across**

- 3. device that measures the volume of air expelled or inspired (used to measure lung volume)
- 4. number of thoracic vertebrae
- **8.** contraction of this muscle pulls the lungs downward and expands them to draw in air through the bronchial passageway (this is the primary inspiratory muscle)
- **9.** the % of normal respiration cycle taken up by inhalation (during speech inhalation makes up 10%)
- **10.** this structure that allows for the legs to attach to the vertebral column is made up of ileum- sacrum- pubic bone- and ischium
- **12.** \_\_\_\_\_ volume is the volume of air exchanged during one cycle of respiration (one inhale and exhale)

- 14. air sacs in the lungs- there are about 300 million of these in mature lungs and they are the point at which oxygen and carbon dioxide are transferred to and from the bloodstream
- **17.** \_\_\_\_\_ respiration -the involuntary act of breathing
- **18.** given a gas of constant temperature, increasing the volume of the chamber in which the gas is contained will cause a decrease in pressure, and vice versa
- **19.** \_\_\_\_pressure is the pressure beneath the level of the vocal folds
- **20.** device that measures respiratory pressure

## <u>Down</u>

1. number of massive lumbar vertebrae and sacral vertebrae three, number of fused coccygeal vertebrae (or 4)

- **2.** \_\_\_\_ pressure is the respiratory pressure in the oral cavity
- **5.** made up of 5 divisions: cervical, thoracic, lumbar, sacral, and coccygeal
- **6.** the % of normal respiration cycle taken up by exhalation (during speech exhalation makes up 90%)
- 7. the entry of liquid or solid materials into the lungs (though it can also mean the removal of materials from the lungs which is more commonly referred to as suctioning)
- **11.** \_\_\_\_\_girdle includes the scapula and clavicle which attach to the sternum
- **13.** \_\_\_\_\_and transverse processes provide the points of attachment for numerous muscles to the vertebral column
- **15.** \_\_\_\_\_capacity is the capacity of air available for speech
- 16. number of cervical vertebrae