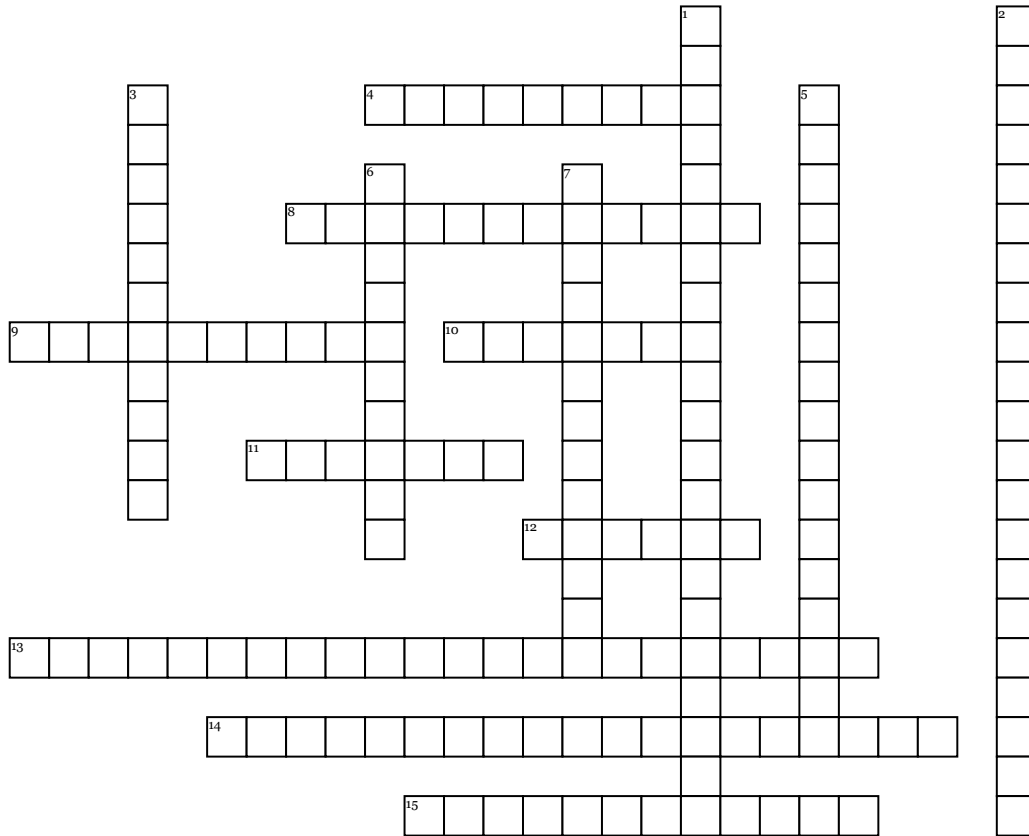


# chapter 9



**Across**

- 4. without air
- 8. process in sexual reproduction in which male and female reproductive cells join to form a new cell
- 9. first set of reactions in cellular respiration
- 10. requires oxygen
- 11. C<sub>6</sub>H<sub>12</sub>O<sub>6</sub>
- 12. o in the periodic table

- 13. metabolic process by which glucose and other six- carbon sugars are converted into cellular energy
- 14. process that releases energy from food in presence of oxygen
- 15. cell organell that carries out cellular respiration in nearly all eukaryotic cells, converting the chemical energy of food to the chemical energy of ATP

- 2. ATP
- 3. a yellowish organic acid which occurs as an intermediate in many metabolic processes, especially glycolysis
- 5. series of electron carrier protiens that shuttle high-energy electrons during ATP- generated reactions
- 6. second stage in cellular respiration
- 7. CO<sub>2</sub>

**Down**

- 1. C<sub>6</sub>H<sub>12</sub>O<sub>6</sub>->2C<sub>2</sub>H<sub>5</sub>OH+2CO<sub>2</sub>

**Word Bank**

- |                        |                          |                        |                |
|------------------------|--------------------------|------------------------|----------------|
| fermentation           | Krebs cycle              | glucose                | oxygen         |
| glycolysis             | Anaerobic                | Pyruvic acid           | Carbon Dioxide |
| mitochondria           | lactic acid fermentation | Adenosine triphosphate | Aerobic        |
| Alcoholic Fermentation | cellular respiration     | Electron transport     |                |