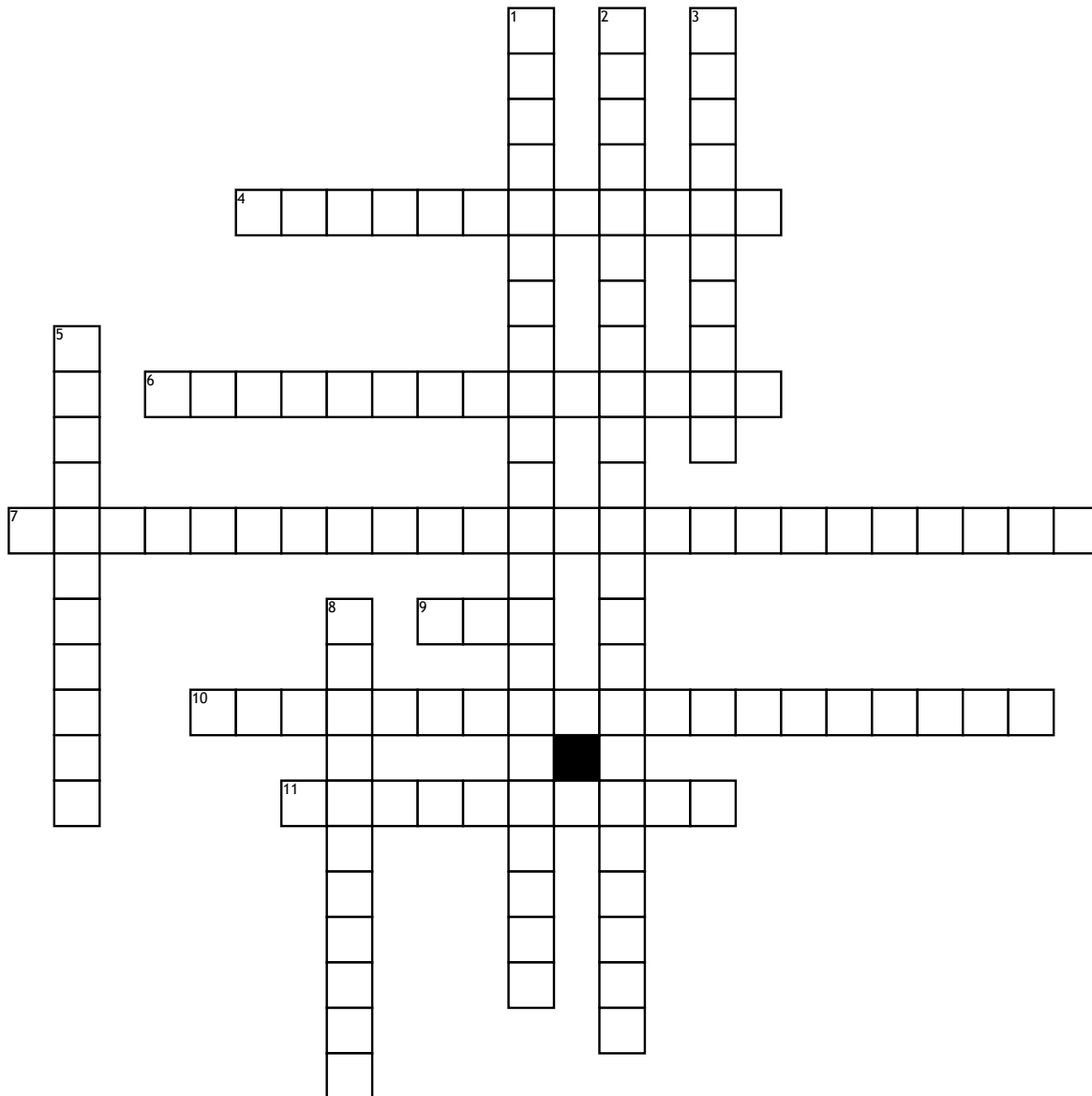


Name: _____

Date: _____

Cellular Energy



Across

4. an anaerobic process in which energy can be released from glucose even though oxygen is not available
6. $6 \text{ CO}_2 + 6 \text{ H}_2\text{O} \rightarrow 1 \text{ C}_6\text{H}_{12}\text{O}_6 + 6 \text{ O}_2$
7. dark reactions, of photosynthesis are chemical reactions that convert carbon dioxide and other compounds into glucose.
9. often referred to as the "molecular unit of currency"
10. $\text{C}_6\text{H}_{12}\text{O}_6 + 6 \text{ O}_2 \rightarrow 6 \text{ CO}_2 + 6 \text{ H}_2\text{O}$
11. It takes place in the mitochondria, consuming oxygen, producing carbon dioxide and water as waste products, and converting ADP to ATP.

Down

1. a series of electron carriers embedded in the cristae of the inner mitochondrial membrane.
2. biochemical reactions in photosynthesis that require light energy
3. the breakdown of glucose by enzymes, releasing energy and pyruvic acid.
5. biochemical reactions that occur in the stroma of chloroplasts during photosynthesis.
8. the green pigment used to capture the sun's energy