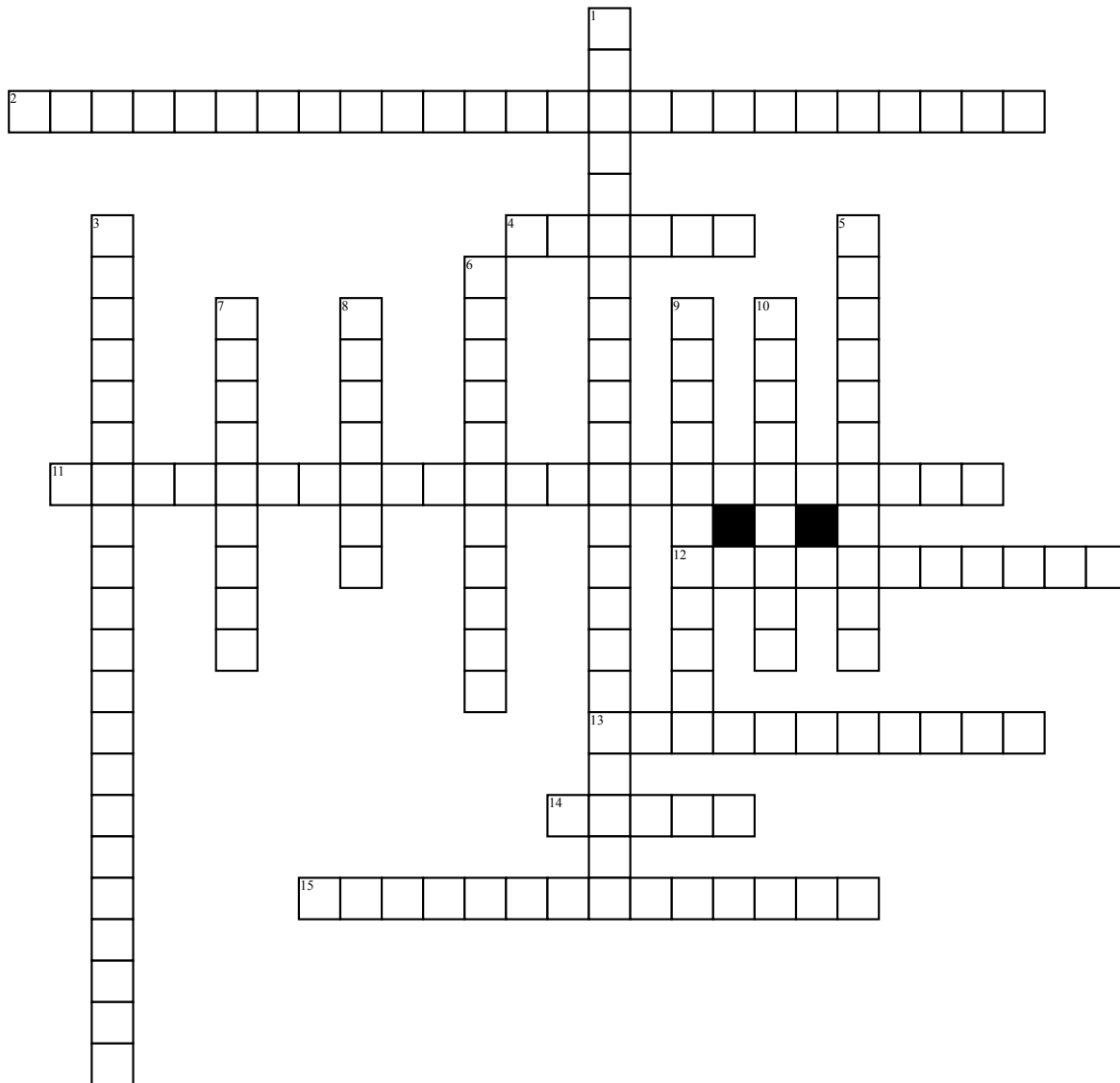


Chapter 8



Across

2. set of reactions in photosynthesis that do not require light
4. fluid portion of the chloroplasts, outside of the thylakoids
11. set of reactions in photosynthesis that use energy from light to produce ATP and NADPH
12. cluster of chlorophyll and proteins found in Thylakoids
13. light-independent reactions of photosynthesis in which energy from ATP and NADPH is used to build high-energy compounds such as sugar

14. carrier molecule that transfer high-energy electrons from chlorophyll to other molecules
15. process used by plants and other autotrophs to capture light energy and use it to power chemical reactions that convert carbon dioxide and water into oxygen and energy-rich carbohydrates such as sugars and starches

Down

1. series of electron carrier proteins that shuttle high-energy electrons during ATP-generating reactions
3. compound used by cells to store and release energy

5. organism that obtains food by consuming other living things; also called consumer
6. cluster of proteins that span the cell membrane and allow hydrogen ions to pass through
7. organism that is able to capture energy from sunlight or chemicals and use it to produce its own food
8. light-absorbing molecule used by plants to gather the sun's energy
9. principal pigment of plants and other photosynthetic organisms
10. sac like photosynthesis membranes found in chloroplasts