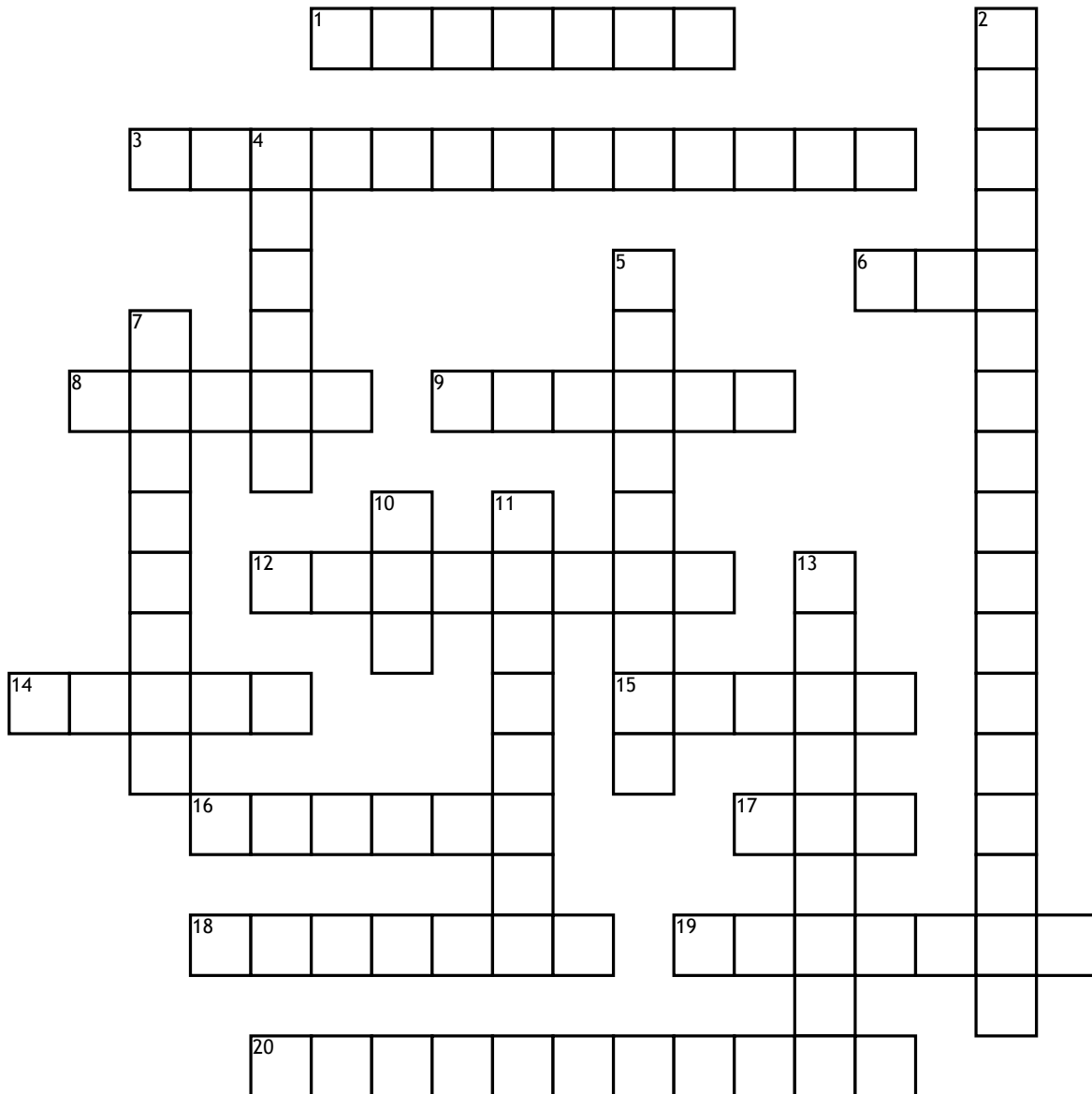


# Photosynthesis



**Across**

- 1. What enzyme attaches carbon to RuBP in light independent reactions?
- 3. In which area is sunlight energy used to split water?
- 6. After carbon attaches to RuBP, what three carbon compound acid is RuBP split into?
- 8. What is the starting molecule of light dependent reactions?
- 9. Where do light independent reactions take place?
- 12. What starts the light dependent reaction?
- 14. What reduces the PGA after ATP adds a phosphate to it?

- 15. How many times does it take light independent reactions to make 1 glucose molecule?
- 16. What is the starting molecule of light independent reactions?
- 17. The role of \_\_\_\_\_ is to provide energy for cellular reactions to take place.
- 18. What is the end product of light independent reactions?
- 19. What do electrons collide with in light dependent reactions?
- 20. Where do the protons flow through to synthesize ATP from ADP?

**Down**

- 2. Where does the light dependent reaction of photosynthesis take place?

- 4. What is the ending product of light dependent reactions?
- 5. What is added to PGA by ATP in the first step of converting PGA to G3P?
- 7. Which molecules pass between light dependent and light independent reactions carrying electrons
- 10. How many of the 6 G3P molecules are used to make glucose/sugar?
- 11. What absorbs light energy to produce electrons?
- 13. What do NADP+ pick up, converting it into NADH?