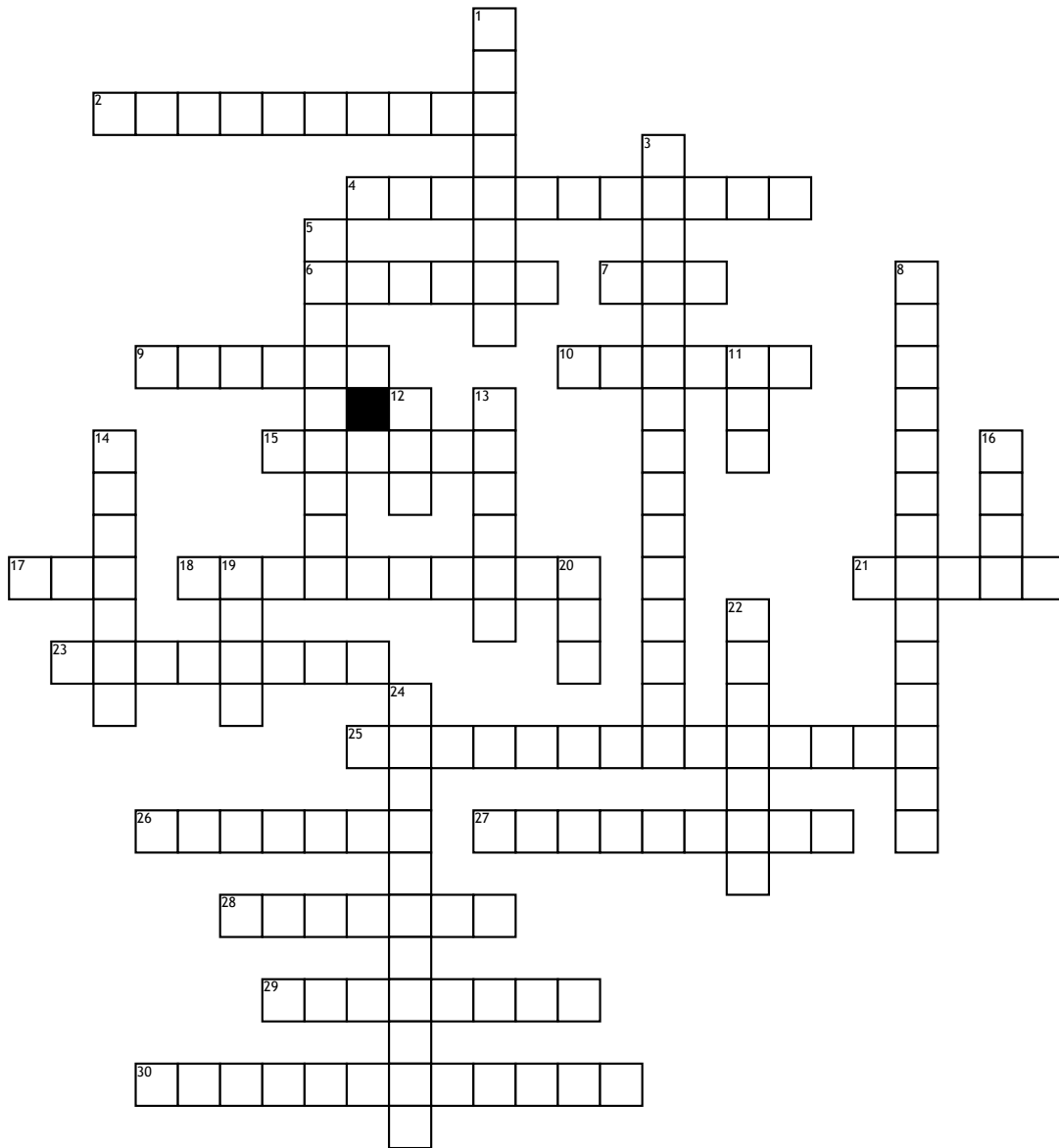


# Photosynthesis



**Across**

- 2. This organelle stores starch.
- 4. Green pigment in plants
- 6. During photorespiration, \_\_\_\_\_ is used instead of carbon dioxide.
- 7. The collection of proteins between photosystem 2 and 1.
- 9. Priestley discovered....
- 10. The law of Conservation of Mass states that matter cannot be created or destroyed; it can only....
- 15. Energy from the electrons is used to pump H<sup>+</sup> ions from the \_\_\_\_\_ to the thylakoid space.
- 17. This kind of plant only opens their stomata at night.
- 18. Discs where light reactions take place.
- 21. The electron carrier produced during the light reactions of photosynthesis.

- 23. The products of the light reactions that are used in the light independent reactions.
  - 25. The place water is split during the light reactions.
  - 26. The enzyme that attaches carbon dioxide to RuBP.
  - 27. Energy in Coal
  - 28. The earliest idea of how plants grew.
  - 29. Jan Ingenhousz discovered that plants used \_\_\_\_\_ to release oxygen.
  - 30. The process that uses ATP synthase to create ATP.
- Down**
- 1. Air is mostly composed of....
  - 3. Plants, algae and some bacteria are able to make their own food. They are called....
  - 5. Stored Energy

- 8. The first part of photosynthesis
- 11. The sugar that leaves the light independent reactions.
- 12. Plants get carbon from....
- 13. Light independent reactions are also called the \_\_\_\_\_ cycle.
- 14. Pores in leaves where water vapor, carbon dioxide, and oxygen pass through.
- 16. The 5-carbon molecule that helps begin the light independent reactions of photosynthesis.
- 19. Infrared Energy
- 20. How many molecules of carbon dioxide, water and oxygen occur in the simplified equation for photosynthesis?
- 22. Energy of Motion
- 24. The organelle responsible for capturing light energy.