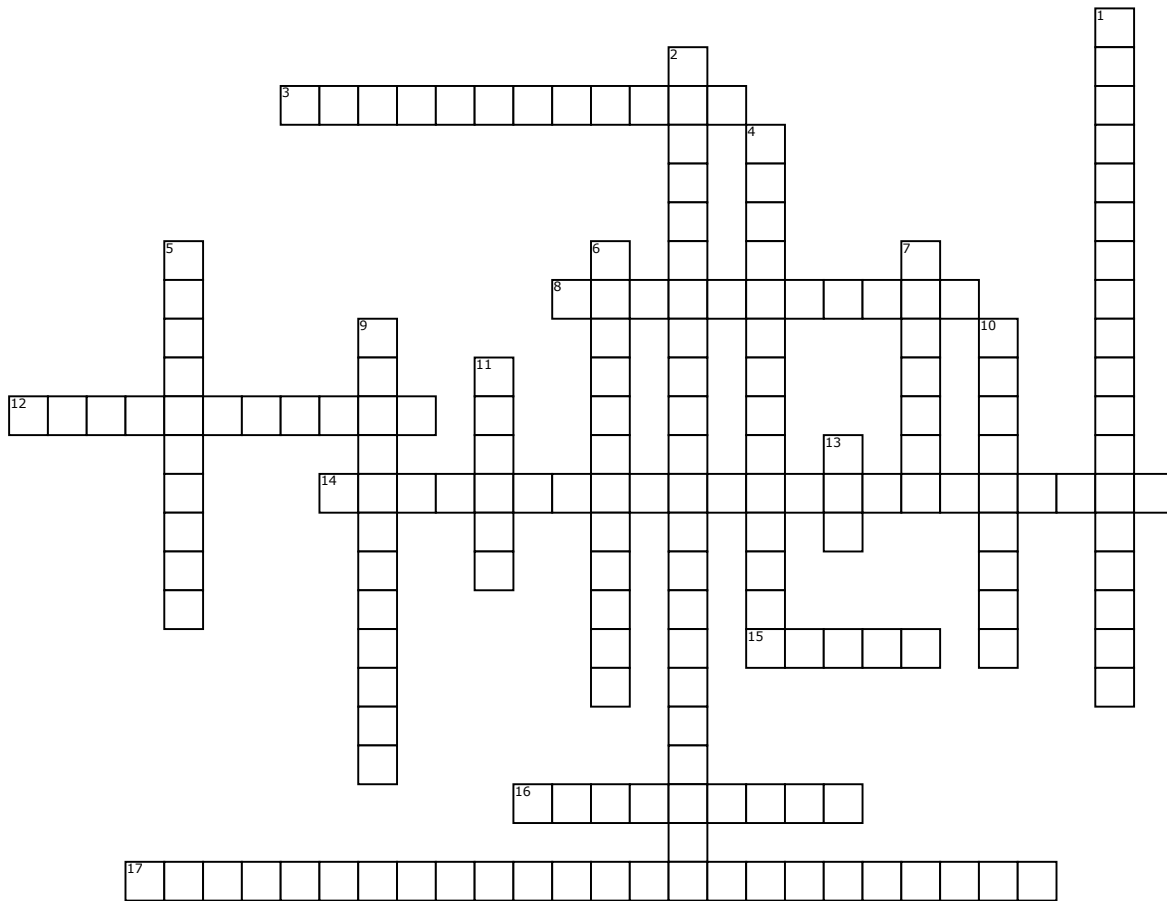


Name: _____

Photosynthesis Crossword



Across

3. This is the primary light absorbing pigment. It can transfer sunlight to reactions of photosynthesis

8. A light absorbing green coloured pigment that begins the process of photosynthesis

12. A cluster of photosynthetic pigments embedded in a thylakoid membrane of a chloroplast that absorbs light energy

14. The first set of reactions of photosynthesis in which light energy excites electrons in chlorophyll molecules, powers chemiosmotic ATP synthesis, and results in the reduction of NADP⁺ to NADPH

15. Electron carrier in energy transfers

16. An when an atom or compound loses electrons

17. The second set of reactions in photosynthesis. (Calvin cycle)

Down

1. Creates the energy storage molecule ATP

2. A series of progressively stronger electron acceptors; each time an electron is transferred, energy is released

4. The process of incorporating CO₂ into carbohydrate molecules

5. The process of light breaking down water

6. It acts as an accessory pigment, absorbing photons that chlorophyll "a" does not

7. Transport molecule (blood sugar)

9. A process for synthesizing ATP using the energy of an electrochemical gradient and the ATP synthase enzymes

10. When an atom or compound gains electrons

11. A packet or unit of light.

13. Principal energy supply molecule is used for cellular functions of all living things