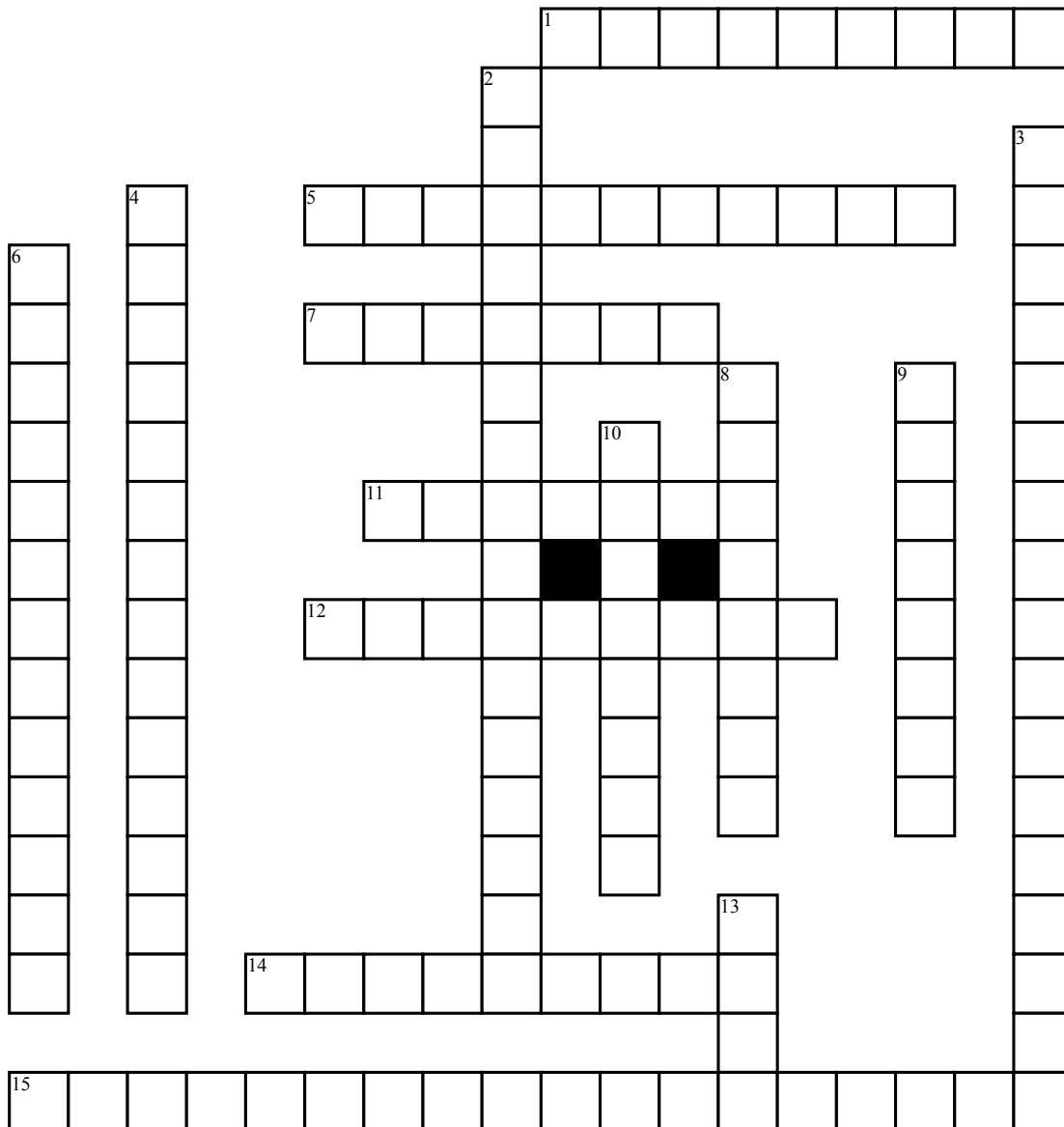


Structure & Function of Cells



Across

- 1.** The net movement of particles from an area of high concentration to an area of low concentration.
- 5.** An organelle that captures light energy and converts it to chemical energy.
- 7.** The diffusion of water across a selectively permeable membrane.
- 11.** A distinct central organelle that contains the cell's genetic material in the form of DNA.
- 12.** The environment inside the plasma membrane that is a semifluid material.

14. A specialized structure that carries out specific cell functions.

15. The concentration of solute outside of the cell is higher than it is inside.

Down

2. When a cell is in a solution that has the same concentration of water and solutes as its cytoplasm.

3. The concentration of solute inside the cell is higher than it is outside.

4. A special boundary that helps control what enters and leaves the cell.

6. Energy generator which converts fuel particles into usable energy.

8. A vesicle that contains substances that digest excess or worn-out organelles and food particles.

9. The organelle that helps manufacture proteins.

10. A thick, rigid, mesh of fibers that surrounds the outside of the plasma membrane, protects the cell, and gives it support.

13. The basic structural and functional unit of all living organisms.