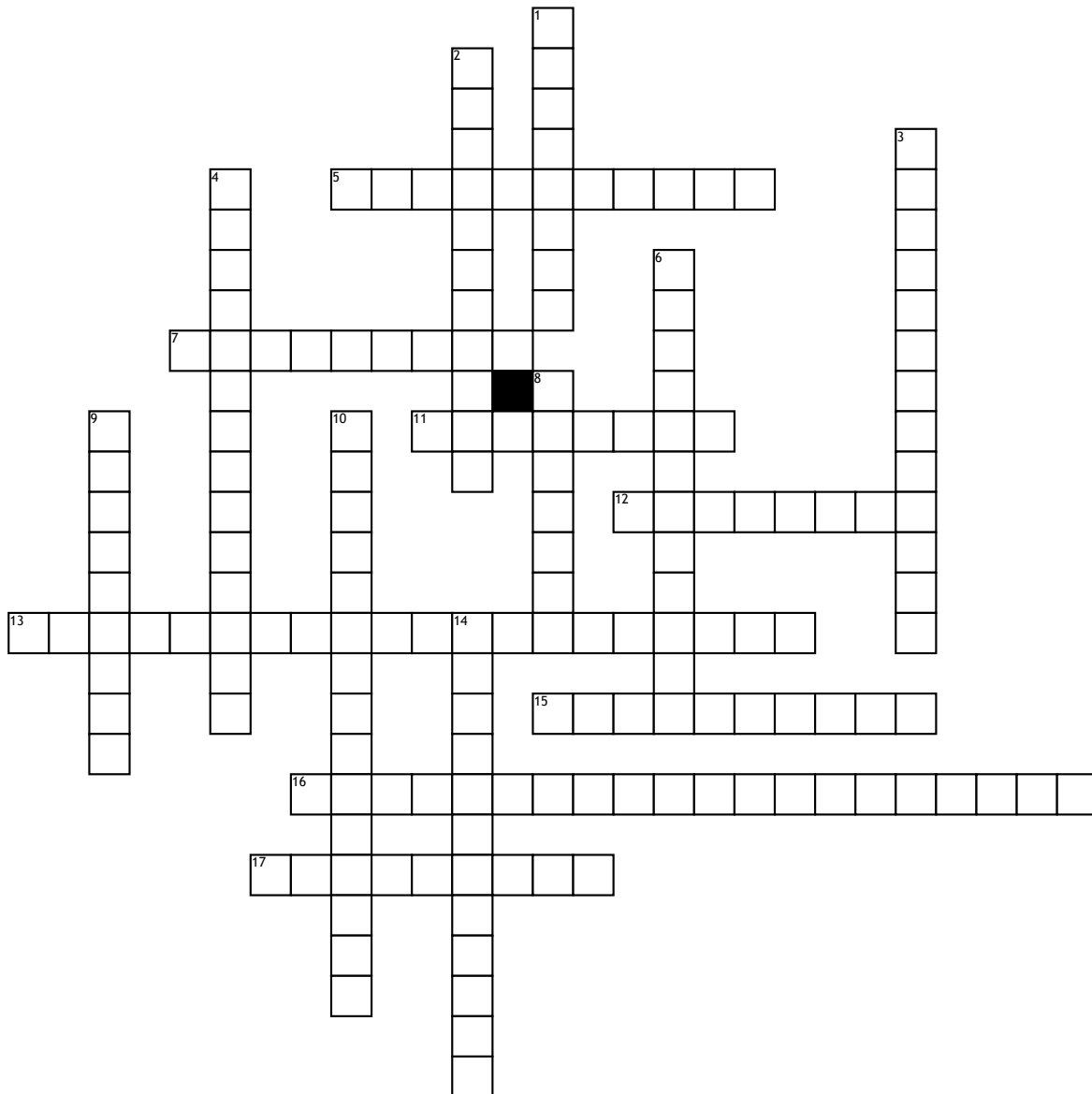


# The Study of Cells is FUN!!!!!!



**Across**

5. organelle composed of numerous membranes that are used to convert solar energy into chemical energy; contains chlorophyll

7. the process by which molecules move from an area of higher concentration to an area of lower concentration

11. organelle that links amino acids together to form proteins

12. part of the endoplasmic reticulum which does NOT have ribosomes attached, hence it is smooth

13. A membrane that allows some molecules to pass through but does not allow other molecules to pass through

15. solution that has a higher concentration of dissolved particles compared with another solution

16. interconnected network of thin, folded membranes that produce, process, and distribute proteins

17. solution that has a lower concentration of dissolved particles compared with another solution

**Down**

1. Solution that has an EQUAL concentration of dissolved particles compared with another solution

2. uptake of liquids or large molecules into a cell by inward folding of the cell membrane

3. bean-shaped organelle that supplies energy to the cell and has its own ribosomes and DNA

4. stack of flat, membrane-enclosed spaces containing enzymes that process, sort, and deliver proteins

6. double-layer of phospholipids that forms a boundary between a cell and the surrounding environment and controls the passage of materials into and out of a cell

8. parts of the endoplasmic reticulum to which ribosomes are attached on the cytoplasmic side

9. jellylike substance inside cells that contains molecules and in some cells organelles

10. energy-requiring movement of molecules across a membrane from a region of lower concentration to a region of higher concentration

14. molecule that forms a double-layered cell membrane; consists of a glycerol, a phosphate group, and two fatty acids