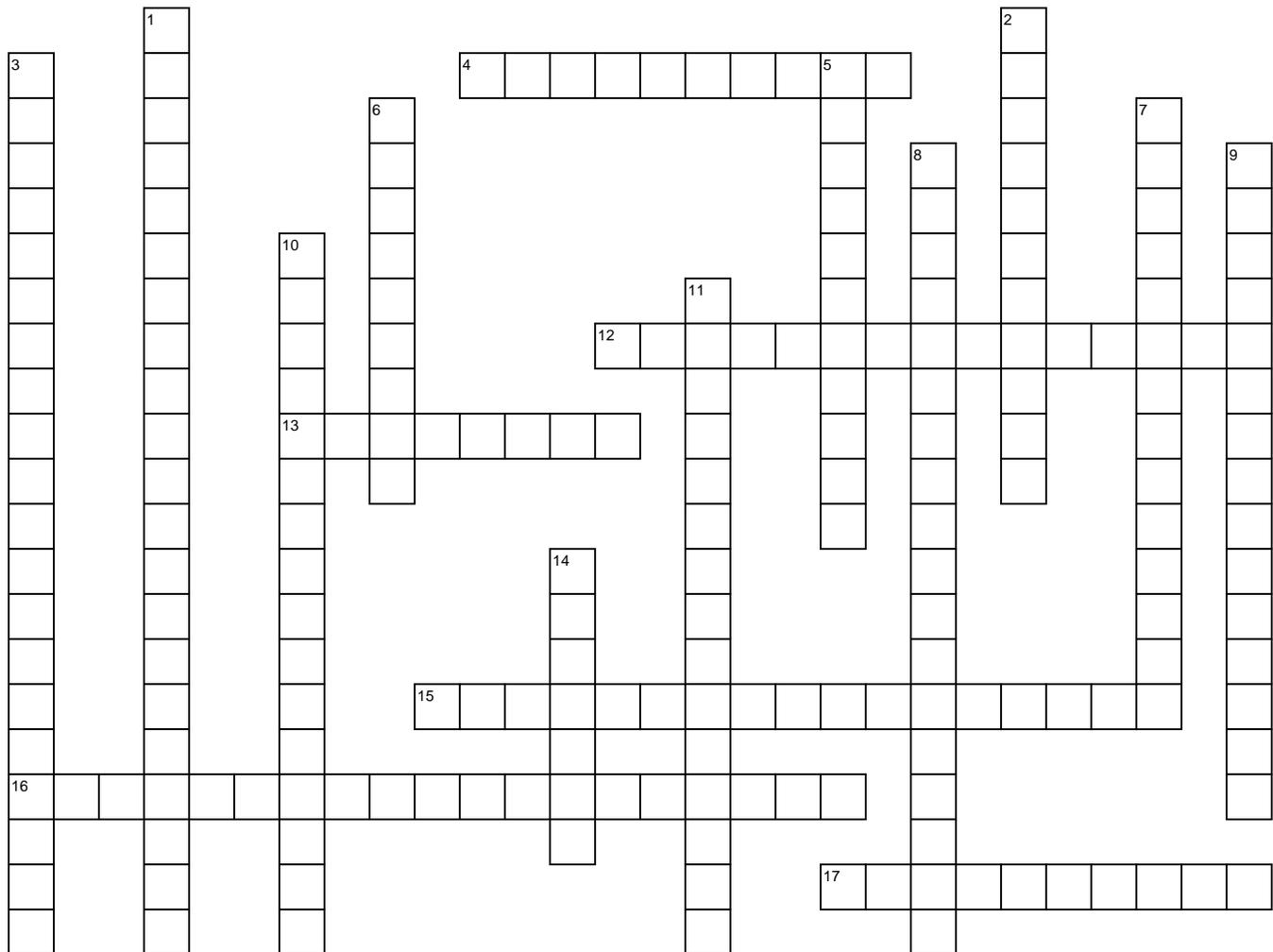


# Roland-Story Biology

## Chapter 4 Vocabulary



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### ACROSS

- 4 this is a transport protein with a polar pore through which ions can pass
- 12 these may cause the formation of a second messenger molecule inside a cell
- 13 When the concentration of dissolved particles outside a cell is equal to the concentration of dissolved particles inside the cell, the cell solution is?
- 15 this is the process of water moving into cells due to the solution causing a cell to swell due to osmosis
- 16 this requires energy to move ions across the cell membrane.
- 17 this helps the cell rid itself of wastes.

### DOWN

- 1 this is the difference in the concentration of a substance across space.
- 2 this is the condition when the concentration of a substance is equal throughout the space.
- 3 this is when carrier proteins are used to transport specific substances down their concentration gradient
- 5 this is a process where cells absorb material from the outside by engulfing it with their cell membrane
- 6 is the movement of a substance from an area of high concentration to an area of lower concentration.
- 7 these are proteins that transport a specific substance or group of substances through intracellular compartments or in extracellular fluids (e.g. in the blood) or else across the cell membrane.
- 8 this is the process of water moving out of cells. a solution that causes the cells to shrink because of osmosis.
- 9 this is a method of cellular signaling, whereby a diffusible signaling molecule is rapidly generated/released which can then go on to activate effector proteins within the cell to exert a cellular response.
- 10 this is movement across a cell membrane that does not require energy from the cell
- 11 is when energy is required to move a substance across a cell membrane
- 14 is a type of passive transport