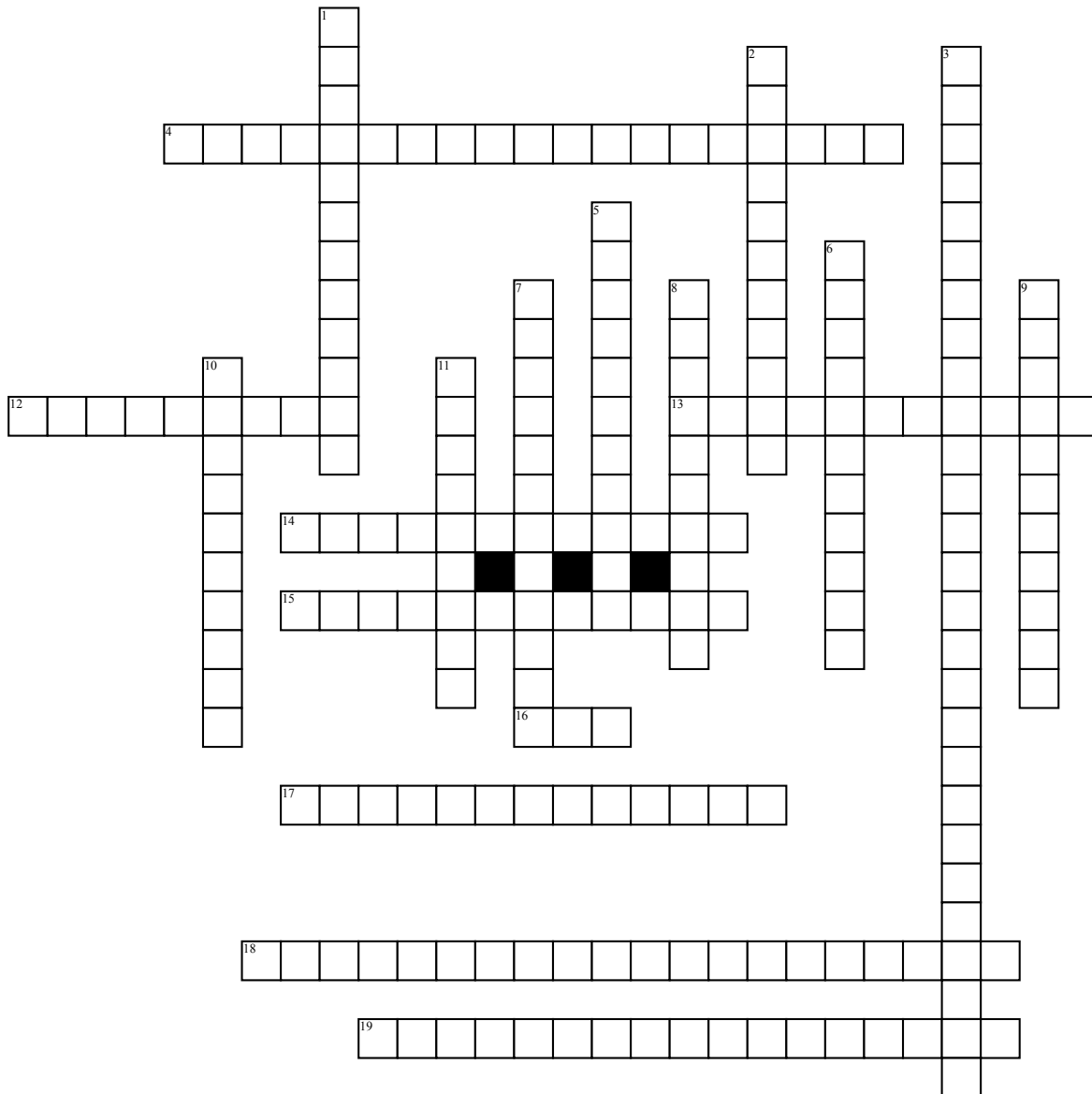


Name: _____

Date: _____

Period: _____

Cell Membrane



Across

- 4. solute pump that pumps sodium out of cells while pumping potassium into cells, both against their concentration gradients
- 12. integral membrane proteins from a larger family of major intrinsic proteins (MIP) that form pores in the membrane of biological cells
- 13. a compound of the sterol type found in most body tissues
- 14. process by which a cell engulfs a solid particle to form an internal compartment known as a phagosome
- 15. proteins that contain oligosaccharide chains (glycans) covalently attached to polypeptide side-chains
- 16. collection of extracellular molecules secreted by cells that provides structural and biochemical support to the surrounding cells

- 17. the closely associated areas of two cells whose membranes join together forming a virtually impermeable barrier to fluid
- 18. process of spontaneous passive transport of molecules or ions across a biological membrane via specific transmembrane integral proteins
- 19. membrane proteins that adhere only temporarily to the biological membrane with which they are associated

Down

- 1. virus
- 2. allow the exchange of ions, second messengers, and small metabolites between adjacent cells
- 3. process by which cells absorb metabolites, hormones, proteins

- 5. indirectly provides energy for active transport
- 6. integral membrane protein that is capable of moving protons across the membrane of a cell
- 7. energy source needed to perform normal biological activities
- 8. lipids with a carbohydrate attached by a glycosidic bond
- 9. mode of endocytosis in which small particles suspended in extracellular fluid are brought into the cell
- 10. pore-forming membrane proteins found in the membranes of all cells
- 11. a structure by which two adjacent cells are attached, formed from protein plaques in the cell membranes linked by filaments