Pre xmas Cellular Communication

Know and be able to:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**KNOW**

|  |  |  |
| --- | --- | --- |
| PolymerMonomerbiological macromoleculecarbohydrateslipids proteins nucleic acids**polarity****cohesion****adhesion****hydrophillic****hydrophobic**eukaryoteprokaryoteorganellesATPImmune cellsmacrophages | **surface tension**cell membraneselectively permeable**phospholipid bilayer**transport proteins (channels)**fluid mosiac model****eukaryote****prokaryote**organellesdiffusionosmosisconcentration-gradientpassive transportactive transportB cellsT cellsskeletal musclesmooth musclecardiac muscle | endocytosisexocytosisequilibriumsolutionsolute isotonic solutionhypertonic solutionhypotonic solutionepidermisdermis subcutaneous tissuefight or flightneurons dendrite axon axon terminal |

**BE ABLE TO**

* describe how cells transport materials into and out of the cell membrane and the structures they use for this process
* make predictions on cells’ ability to grow or shrink based on the solution they are in
* compare and contrast eukaryotes and prokaryotes
* provide examples of the 4 biological macromolecules the and the bodily functions they are need for
* know the properties of water
* know the structures of skin and their functions and how skin cells play a role in the fight or flight response
* know the structure of nerve cells and how chemical messages pass through them
* know the types of neurons and what they are classified for
* know the structure of muscle cells and be able to describe how a muscle cell contracts using this vocabulary ( sarcomere, myosin, M line, Z line, actin, cross-bridge)
* know the types of muscle cells and what they do
* identify parts of a scientific experiment (independent variable, dependent variable, controls)
* compare and contrast a positive feedback loop with a negative feedback loop