

Unit 3 Learning Goals: Cells

Page(s)	Understandings	My Understanding		
	U1. Describe the structure and function of the cell membrane (phospholipid bilayer) and all molecules that are attached to the membrane (including cholesterol, glycoproteins, glycolipids, and all other membrane proteins)			
	U2. Explain how the chemical composition of the phospholipids in the lipid bilayer affect what types of molecules can pass through unaided (without transport proteins).			
	U3. Explain how cholesterol and the fatty acid tails of phospholipids (unsaturated or saturated) influence the fluidity of the cell membrane.			
	U4. Explain how osmosis maintains equilibrium and predict the net flow of water given concentrations on both sides of a semipermeable membrane. Include the concepts of diffusion, concentration gradient, isotonic, hypertonic, hypotonic, and net flow.			
	U5. Explain the importance of osmosis for plant and animal cells, and apply this knowledge to analyze the health of humans			
	U6. Describe the specific examples of transport (endocytosis, exocytosis, facilitated diffusion, diffusion, osmosis, general active transport) and distinguish between passive and active transport.			
	U7. Explain how surface area to volume ratio affects cells and why it is significant for organisms and the cell cycle.			
	U8. Explain how and why enzymes speed up chemical reactions.			
	U9. Explain why factors such as pH, temperature, and salinity affect the rate of enzyme catalyzed reactions.			

Page(s)	Skills	My Understanding		
	S1. Construct graphs that meet the TALKS requirements and appropriately represent data			
	S2. Construct an explanation with evidence that answers the investigation question from each lab in this unit (Potato Osmosis, Cell Size)			
	S3. Construct a line of best fit (on a graph of molarity and % change in mass) to determine the concentration of potato tissue			

Vocabulary List

Phospholipid bilayer
Cholesterol
Integral protein
Peripheral protein
Semi-permeable
Diffusion
Osmosis
Hydrophilic
Hydrophobic
Lysis

Polar
Nonpolar
Concentration gradient
Equilibrium
Net flow
Hypotonic
Hypertonic
Turgid
Glycolipid

Surface area
Volume
Ratio
Receptor protein
Recognition protein
Adhesion protein
Glycoprotein
Transport protein
structure/function

Endocytosis
Exocytosis
Facilitated diffusion
Active transport
Saturated fatty acid
Unsaturated fatty acid
Channel protein
Carrier protein
Pump protein
enzyme

enzyme
active site
substrate
product
chemical reaction
activation energy
catalyst
denaturation
pH
temperature
salinity

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