

Cell Transport Study Guide
Anatomy

Name: _____
Period: _____ Date: _____

1. Complete the following chart comparing the various methods of cell transport.

Transport Method	Active or Passive	Uses ATP (Y or N)	Transport Direction (down or against)	Uses Carrier Proteins (Y or N)
Diffusion				
Osmosis				
Facilitated Diffusion				
Active Transport				
Endo/Exocytosis				

2. Why do polar molecules and ions have problems crossing the cell membrane by just diffusion? _____
3. What assists the transport of these items across the membrane?
4. What material diffuses across the cell membrane during osmosis? _____
5. Match the description with the correct osmotic condition:

A. Isotonic B. Hypertonic C. Hypotonic

	Solution with a lower solute concentration.
	Solution with a lower water concentration.
	Solution with a higher solute concentration.
	Solution with a higher water concentration.
	Two solutions with the same solute concentration.
	Two solutions with the same water concentration.

6. A human blood cell (1%) solute is placed in salt water (5%) solute.
- Is the environment hypotonic, hypertonic or isotonic? (circle)
 - Is the cell hypotonic, hypertonic or isotonic? (circle)
 - What % is the water concentration inside the cell? _____
 - What % is the water concentration outside the cell? _____
 - Where is the water more concentrated? inside or outside
 - Which direction will the water move? into or out of the cell
 - What effect will this have on the cell? _____
 - Is this an example of cytolysis or crenation? (circle)

Cell Transport Study Guide Key

Arshad Iqbal



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