Cellular Interactions – How do things get into or out of a cell?

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1.	What are the three ways in which cells exchange molecules with their environment?
	ADiffusion
	BOsmosis
	CActive Transport
2.	Explain "Selectively Permeable" in your own words:Cells are "picky" about what they let in. Only food, water, and nutrients
3.	How do molecules move according to the rules of Diffusion?They always move down the concentration gradient, from an area of high concentration to low concentration
4.	Draw a sketch (before and after) of a cell undergoing diffusion below:
5.	How are diffusion and osmosis related?They are both passive forms of movement into or out of a cell. Osmosis is just water, diffusion is everything else
6.	What is the major way in which active transport differs from both diffusion and osmosis?
	active transport requires a cell to expend energy. Diffusion and osmosis are both passive transports and do not require energy. Passive transport is high concentration to low concentration. Active transport is low to high
7.	When would a cell have to use active transport (provide two scenarios)?
	Moving a molecule from an area of low concentration to an area of high concentration or trying to move a molecule that is too large to fit through the usual pores or proteins
	Using what you know about diffusion, draw arrows on the diagrams below showing in which direction the particles or molecules would be moving.