Amoeba Sisters Video Recap of Osmosis

1. The below picture represents diffusion of molecules. Place the following labels in the diagram: high concentration , low concentration , and an arrow showing the direction that the molecules would travel before equilibrium is reached.	 2. Osmosis is a type of diffusion, but it involves the movement of water. Similar to diffusion, osmosis is the movement of molecules (water molecules if osmosis) from a high concentration to a low concentration. The video clip explains that you can also look at water as moving to a concentration of solute molecules.
Molecules	Why can it also be viewed this way?
 3. Osmosis Scenario: The video clip mentioned a disaster scenario of a saltwater fish being placed in fresh water. What would occur if, instead, a freshwater fish was placed in saltwater? Your answer needs to have an arrow indicating the direction of water flow in osmosis, a label for "hypertonic," and a label for "hypotonic." 	 4. Osmosis Scenario: Fluid movement into the brain after traumatic brain injury can result in dangerous brain swelling. One treatment that can be used in some of these cases is adding a saline. You need to decide whether this blank should be the word hypertonic or hypotonic. Remember, you are trying to reduce the excessive fluid in the brain. Explain your answer:



Do you like gummy bears? We do!	Viewpoints:	6. Whose viewpoint is correct in the viewpoint column? A good answer has a good defense! Defend your answer, and also give reasons why the other explanations are incorrect.
They are one of our favorite snacks, though we (try) to eat them in moderation because they are high in sugar. Consider that your sister is in a foul mood and decides to dump your gummy bears in your ice water about 30 minutes before you get home. The gummy bears are greatly enlarged by the time you get home! Your sister and some friends have different viewpoints for what	 A) Your sister said that the sugar left the gummy bears, because the gummy bears were hypertonic compared to the water. 	
	 B) Your friend Joe said that water traveled into the gummy bears, because the gummy bears were hypertonic compared to the water. 	
happened. Draw a diagram below showing the enlarged gummy bears in a cup of water. Place the labels "hypertonic" and "hypotonic" in your diagram. One label should be for the gummy bears and one label	C) Your friend Suzy said the sugar went into the gummy bears, because the gummy bears were hypotonic compared to the water.	
should be for the water. 5.	 D) Your friend Will said that water traveled into the gummy bears by osmosis, because the gummy bears were hypotonic compared to the water. 	

The Gummy Bear Mystery

Hypertonic, Hypotonic, or Isotonic? Oh My!

These red blood cells have all been placed in different solutions! Based on their appearance after being placed in these solutions for a period of time, place on each line (A) for **hypertonic**, (B) for **hypotonic**, or (C) for **isotonic**.



