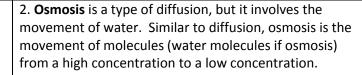
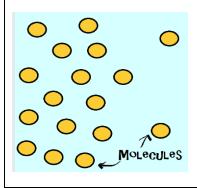
Amoeba Sisters Video Recap of Osmosis

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.



The video clip explains that you can also look at water as moving to a _____ concentration of **solute** molecules.

Why can it also be viewed this way?

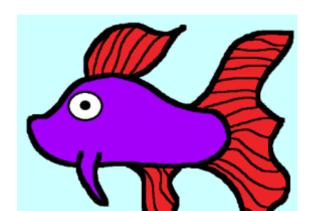




3. **Osmosis Scenario:** The video clip mentioned a disaster scenario of a saltwater fish being placed in fresh water.

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. Yo	วน
need to decide whether this blank should be the word	
hypertonic or hypotonic. Remember, you are trying to	
raduca the excessive fluid in the hrain	

Explain your answer:





The Gummy Bear Mystery

Do you like gummy bears? We do! 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 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 should be for the water.

5.

Viewpoints:

- 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.
- C) Your friend Suzy said the sugar went into the gummy bears, because the gummy bears were **hypotonic** compared to the water.
- D) Your friend Will said that water traveled into the gummy bears by osmosis, because the gummy bears were **hypotonic** compared to the water.

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.**

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**.

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8. The cells are	
compared to the _	
solution.	



9. The cells are	_
compared to the	
solution.	





