

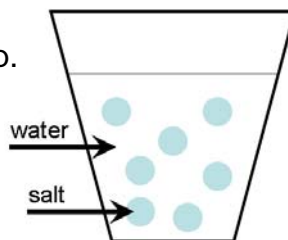
Target	1	2 (all of 1 plus)	3 (all of 2 plus)	4 (all of 3 plus)
LE 5.7 Preparedness	Does not complete formative or summative in an effortful and timely manner, is not engaged, does not arrive on time with class materials ready to learn, does not communicate when issues arise	Completes formative or summative in an effortful or timely manner, is sometimes engaged, sometimes arrives on time with class materials ready to learn, sometimes communicates when issues arise	Completes formative or summative in an effortful and timely manner, remains engaged, arrives on time with materials ready to learn, communicates when issues arise	Completes formative or summative in an effortful and timely manner, remains engaged, arrives on time with materials ready to learn, communicates when issues arise, and is reflective on strengths and challenges within your preparedness skill
LE 5.6 Precision	Recognizes the importance of products that are planned, edited, and completed with care	Attempts products that are planned, edited, and completed with care	Creates products that are planned, edited, and completed with minimal errors	Creates products that are planned, edited, and completed free from errors or need for revision
Hydro 6	I can identify solvent, solute and solution and create/interpret a diagram of solution at the molecular scale	I can recognize that polarity has a role in solubility	I can predict solubility based on polarity of solute and solvent	I can interpret/explain the consequence(s) of solubility with respect to pollution
MP3 Hydrosphere (Shape, Polarity, Solubility)	I can create a Lewis structure of a particle of a substance, and use it to predict the shape of a molecule.	(all of 1 plus) I can use electronegativities of atoms and shapes of molecules to predict polarity	(all of 2 plus) I can demonstrate an understanding of the relationship between polarity and solubility	(all of 3 plus) aced it!

1. Definitions:

- a. Polar molecule (*from Hydro 5*)
- b. Non-polar molecule (*from Hydro 5*)
- c. Solute (*from Hydro 6*)
- d. Solvent (*from Hydro 6*)
- e. Solution (*from Hydro 6*)

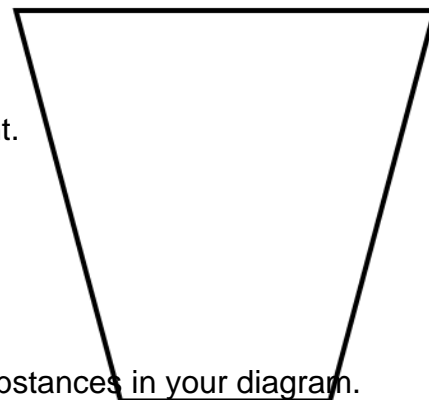
2. Look at the diagram of salt water in the cup.

- a. Identify the solute with an X.
- b. Identify the solvent with an S.
- c. Circle the solution.



3. The following list include some of the ingredients in “soda pop”. Next to each ingredient identify it as a solution, solute, or a solvent.

- a. Carbon dioxide _____
- b. Water _____
- c. Sugar _____
- d. Flavors _____
- e. “Soda pop” _____
- f. Diagram the “soda pop” in the cup. Label the dissolved substances in your diagram.



4. Think about the Winooski River as a solution.

- a. What is the solvent?
- b. What is an example of a solute in the Winooski?

