Solution Activity

Now that we have learned about solutions, we are going to test our knowledge with our own solutions!

For this activity, you will need the following materials:

- Cup to mix solutions (clear cup works best)
- Water
- Choice of other liquid to drink
- Choice of other powder mixture
- Measuring cups ($\frac{1}{2}$ tsp)
- Salt
- Sugar

Directions:

- **1.** Fill your cup about $\frac{3}{4}$ full of water and take a sip
 - a. This is what your water tastes like before we create our solutions
 - b. You may keep an extra cup of water on the side to compare tastes (optional)
- 2. Mix in $\frac{1}{2}$ tsp of salt into your drink and take a sip
 - a. This is what a salt water solution tastes like with low solubility
 - i. Low solubility \rightarrow low amounts of solute mixed in large amounts of solvent
- 3. Mix in another $\frac{1}{2}$ tsp of salt into your drink and take a sip
 - a. This is what a salt water solution tastes like with higher solubility
 - i. High solubility \rightarrow high amounts of solute mixed in solvent
- 4. Empty your cup and repeat steps 1-3 with sugar
- **5.** Empty your cup and repeat steps 1-3, but with your choice of solute (edible powder) and/or solvent (drinkable liquid)

REFLECTION:

- 1. What were all of your solutes and solvents that you used during this activity?
 - Solutes → _____
 - Solvents \rightarrow _____
- 2. Explain what the solutions tasted like with low solubility.
- 3. Explain what the solutions tasted like with higher solubility.
- 4. How can you use your knowledge of solubility and solutions throughout your life?