

### Tasty Solutions

Read the steps, and then obtain 3 pieces of candy from your teacher. You will need 3 pieces for **each** group member.

**Step 1:** Place one piece of candy in your mouth and allow it to dissolve without using your tongue or teeth to help! Record the time (in seconds) it takes for the candy to dissolve.

**Step 2:** Place another piece of candy in your mouth and allow it to dissolve using only your tongue to move it around. Record the time (in seconds) it takes for the candy to dissolve.

**Step 3:** Place another piece of candy in your mouth and allow it to dissolve using your tongue and teeth. Record the time (in seconds) it takes for the candy to dissolve.

<u>Piece of Candy</u>	<u>Dissolving Time (s)</u>
1 <sup>st</sup>	
2 <sup>nd</sup>	
3 <sup>rd</sup>	

### Questions

1. Identify the solute(s) and solvent in each solution. Underline the solute and circle the solvents. Remember that a SOLUTE dissolves in a SOLVENT.

Ocean Water contains Salt and Water
Antifreeze contains Water and Ethylene Glycol
Soda Pop contains Syrup and Water
Kool-Aid contains Powder and Water
Lemonade contains Lemon Juice and Water

2. What liquid is called the “universal solvent”?
3. Which would have the most SOLUTE: a glass of very sweet Kool-Aid or a glass of barely sweet Kool-Aid? Give a reason for your answer.
4. Explain the results of your experiment in terms of dissolving rate or the time it takes substances to dissolve.
5. In your “solution”, which is considered the solute?
6. In your “solution”, which is considered the solvent?