
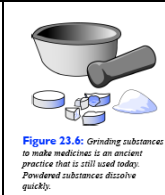

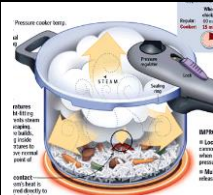


There are 4 main factors that affect the solubility of a solute in a solvent:

Temperature	Surface area	Stirring	pressure
•	•	•	•
•	•	•	•
•	•	•	•
	 <p>Figure 21.6: Grinding substances to make medicines is an ancient practice that is still used today. Powdered substances dissolve quickly.</p>		

Tasty solutions lab: Discovering the parts of a solution...

piece of candy	Directions	dissolving time (s)
1 st	Just put in mouth- don't chew (increase temperature)	
2 nd	Put in mouth and Swirl around (Stir)	
3 rd	Put in mouth and chew (increase surface area)	

Questions:

- In this lab, the solute is _____, the solvent is _____ and the solution is _____
- What explains the difference in time for the various pieces of candy to dissolve?
- How do the three factors that affect dissolving play a role in this activity?

Fill in the following paragraph:

The candy dissolves in the _____ in my mouth to form a liquid _____. Solutions contain two parts, a _____ and a _____. In this case, the solvent is the _____ and the solute is the _____. The solute _____ by spreading out evenly throughout the solvent. The candy dissolves more quickly when it is exposed to chewing and stirring because more _____ is exposed.