

1. Which illustration below represents
  - a. solute particles in a solid state in water?
  - b. solute particles in an aqueous state?



2. What variables are controlled in all five beakers of Model 1?

Same amount of solvent(water), same temperature, same solute, stirred for 2 hours

3. Count the particles present in each beaker of Model 1. Fill in the table to show the number of dissolved solute particles and the number of solid solute particles.

Refer to table.

4. Consider the beakers in Model 1.
  - a. Which beakers represent **unsaturated** solutions?  
A & B
  - b. Which beakers represent **saturated** solutions?  
C, D & E
5. Beakers A–E in Model 1 are depicted as representing five different or separate solutions. They could also be considered as five “snapshots” of the same beaker over time. In other words, if additional measured quantities of solute were stirred into beaker A in small increments over time, then beakers B–E would result.
  - a. When a small amount of additional solute is added to an unsaturated solution, what happens to the number of dissolved particles? Provide specific evidence from Model 1 to support your answer.

The particles dissolve. If we look at beaker A and we add more solute it becomes like beaker B which has more particles dissolved.

- b. When a small amount of additional solute is added to a saturated solution, what happens to the number of dissolved particles? Provide specific evidence from Model 1 to support your answer.

The particles settle out to the bottom, this is like going from beaker C to D.

- c. Predict what would happen if a small amount of additional solute were stirred into beaker E in Model 1.

Nothing would happen, more solute would settle to the bottom.

6. Have each person in your group provide an example of the word “saturated” as it is used in an everyday context. Summarize the meaning of the word in the space below.

Some examples: a soaked sponge, soil after a heavy rain, adding sugar to iced tea

Definition: something that has the maximum amount of a substance in it.

# Pogil Aqueous Solutions Answers

**Robert Griffin Smith**



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*A Study of the Solubility of Certain Organic Substances in Aqueous Solutions* John Henry Saylor, 1930      A Study of the Free Discharge of Non-aqueous Solutions Walter Carrington Fitzpatrick, 1938

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