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Student Exploration: Solubility and Temperature

Vocabulary: concentration, dissolve, homogeneous mixture, solubility, solubility curve, solute, solution, solvent

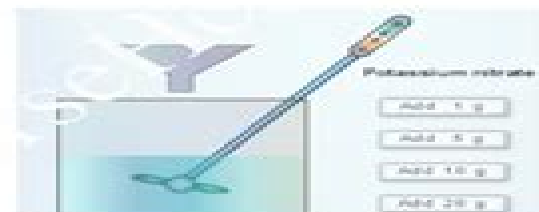
Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

1. What happens when you stir a spoonful of sugar into hot water? It dissolves.
2. When sugar or another substance is **dissolved** in water, it disappears from view and forms a **homogeneous mixture** with the water, also called a **solution**.
If you can't see the sugar, how can you tell that it is there? You wouldn't know unless you taste it since it dissolves. If the water is sweet then you'll know sugar is in it.
3. Does sugar dissolve more easily in hot water or cold water? Hot water.

Gizmo Warm-up

A solution generally consists of two parts, a **solute** that is dissolved and a **solvent** that the solute is dissolving into. For example, sugar is a solute that is dissolved into the solvent water. In the *Solubility and Temperature* Gizmo™, you will study how temperature affects how much solute will dissolve in a solution.

To begin, check that **Potassium nitrate** is selected and the **Temp.** of the water is 20 °C. Click **OK**.



1. In this solution, what is the solute? Potassium nitrate
What is the solvent? Water
2. Click **Add 10 g** to mix 10 g of potassium nitrate into the water.
 - A. Did all of the potassium nitrate dissolve? Yes
 - B. How can you tell? You can't see the solute (Potassium nitrate) because it's gone left over

Student Exploration Solubility And Temperature Answers

**Thomas R. Lord, Donald P.
French, Linda W. Crow**



Student Exploration Solubility And Temperature Answers:

ENC Focus ,2000 **Ate Science Plus 2002 LV Red** Holt Rinehart & Winston,2001-02 Resources for Teaching Middle School Science Smithsonian Institution,National Academy of Engineering,National Science Resources Center of the National Academy of Sciences,Institute of Medicine,1998-04-30 With age appropriate inquiry centered curriculum materials and sound teaching practices middle school science can capture the interest and energy of adolescent students and expand their understanding of the world around them Resources for Teaching Middle School Science developed by the National Science Resources Center NSRC is a valuable tool for identifying and selecting effective science curriculum materials that will engage students in grades 6 through 8 The volume describes more than 400 curriculum titles that are aligned with the National Science Education Standards This completely new guide follows on the success of Resources for Teaching Elementary School Science the first in the NSRC series of annotated guides to hands on inquiry centered curriculum materials and other resources for science teachers The curriculum materials in the new guide are grouped in five chapters by scientific area Physical Science Life Science Environmental Science Earth and Space Science and Multidisciplinary and Applied Science They are also grouped by type core materials supplementary units and science activity books Each annotation of curriculum material includes a recommended grade level a description of the activities involved and of what students can be expected to learn a list of accompanying materials a reading level and ordering information The curriculum materials included in this book were selected by panels of teachers and scientists using evaluation criteria developed for the guide The criteria reflect and incorporate goals and principles of the National Science Education Standards The annotations designate the specific content standards on which these curriculum pieces focus In addition to the curriculum chapters the guide contains six chapters of diverse resources that are directly relevant to middle school science Among these is a chapter on educational software and multimedia programs chapters on books about science and teaching directories and guides to science trade books and periodicals for teachers and students Another section features institutional resources One chapter lists about 600 science centers museums and zoos where teachers can take middle school students for interactive science experiences Another chapter describes nearly 140 professional associations and U S government agencies that offer resources and assistance Authoritative extensive and thoroughly indexed and the only guide of its kind Resources for Teaching Middle School Science will be the most used book on the shelf for science teachers school administrators teacher trainers science curriculum specialists advocates of hands on science teaching and concerned parents *College Science Teachers Guide to Assessment* Thomas R. Lord,Donald P. French,Linda W. Crow,2009 This guide is divided into four sections comprising 28 peer reviewed chapters It covers general assessment topics and traditional and alternative assessment techniques A series of how to assessment practices utilized in the field and practical tips to enhance assessment in the college science classroom are included **Prentice Hall Science Explorer** Michael J. Padilla,2002 *Journeys-TM* J.

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