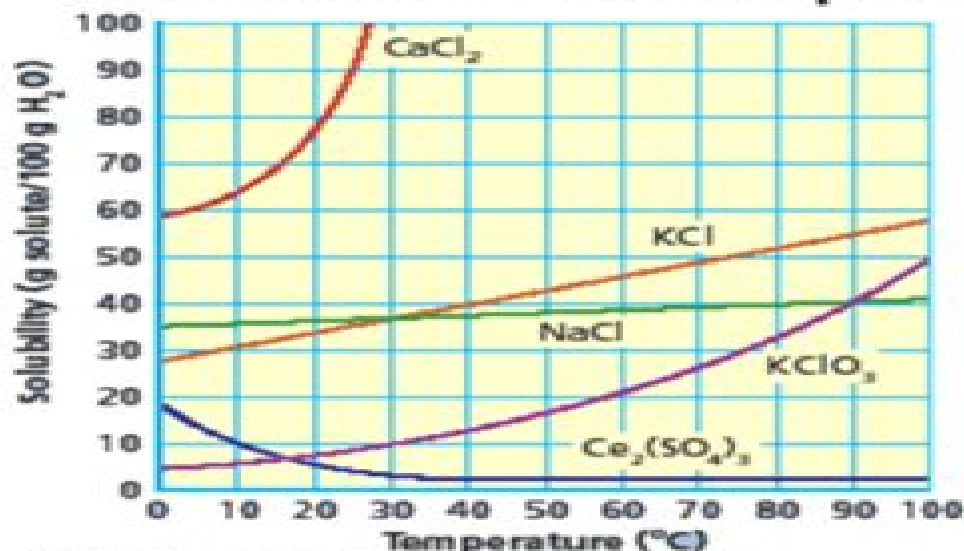


Directions: Use the graph below to answer the following questions. If the question requires a calculation, **SHOW ALL WORK TO RECEIVE CREDIT FOR THE ANSWER**. No work, no credit, no kidding! Remember units.

### Solubilities as a Function of Temperature



#### Types of Solutions

- Points that collectively make up the solubility curve (points **ON** the curve) represent \_\_\_\_\_ solutions.
- Points that are **BELOW** the curve represent \_\_\_\_\_ solutions.
- Points **ABOVE** the solubility curve represent \_\_\_\_\_ solutions, and the difference between the point above the curve and on the curve represents the amount of solute which will precipitate out.

1. a. What is the solubility of calcium chloride at 5°C? \_\_\_\_\_g/100g of H<sub>2</sub>O  
 b. What is the solubility of calcium chloride at 25°C? \_\_\_\_\_g/100g of H<sub>2</sub>O  
 c. What is happening to the solubility and temperature?  
 Solubility is \_\_\_\_\_Increasing or Decreasing\_\_\_\_\_ as temperature is \_\_\_\_\_Increasing or Decreasing\_\_\_\_\_  
 What is this type of relationship called? \_\_\_\_\_direct or indirect\_\_\_\_\_  
 This occurs for which type of solutes? \_\_\_\_\_gasses or solids\_\_\_\_\_
2. a. What is the solubility of cerium sulfate at 10°C? \_\_\_\_\_g/100g of H<sub>2</sub>O  
 b. What is the solubility of cerium sulfate at 50°C? \_\_\_\_\_g/100g of H<sub>2</sub>O  
 c. What is happening to the solubility and temperature?  
 Solubility is \_\_\_\_\_increasing or decreasing\_\_\_\_\_ as temperature is \_\_\_\_\_increasing or decreasing\_\_\_\_\_  
 What is this type of relationship called? \_\_\_\_\_direct or indirect\_\_\_\_\_
3. a. At 90°C, 10 g of potassium chlorate is dissolved in 100. g of water.  
 Is this solution saturated, unsaturated, or supersaturated?  
 b. How do you know?

# Unit 12 Solutions Solubility Curves Answer Key

**Disha Experts**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the 'Disha Experts' text.

## Unit 12 Solutions Solubility Curves Answer Key:

Jacaranda Chemistry 1 VCE Units 1 and 2, learnON and Print Neale Taylor, Angela Stubbs, Robert Stokes, 2022-11-30  
Developed by expert Victorian teachers for VCE students The NEW Jacaranda Chemistry VCE series continues to deliver curriculum aligned material that caters to students of all abilities Our expert author team of practising teachers and assessors ensures 100% coverage of the new VCE Chemistry Study Design 2023 2027 **Chemistry** Carson-Dellosa Publishing, 2015-03-16 Chemistry for grades 9 to 12 is designed to aid in the review and practice of chemistry topics Chemistry covers topics such as metrics and measurements matter atomic structure bonds compounds chemical equations molarity and acids and bases The book includes realistic diagrams and engaging activities to support practice in all areas of chemistry The 100 Series science books span grades 5 to 12 The activities in each book reinforce essential science skill practice in the areas of life science physical science and earth science The books include engaging grade appropriate activities and clear thumbnail answer keys Each book has 128 pages and 100 pages or more of reproducible content to help students review and reinforce essential skills in individual science topics The series will be aligned to current science standards *Unit Operations of Chemical Engineering* Warren Lee McCabe, Julian Cleveland Smith, 1956 *Chemistry: The Central Science* Theodore L. Brown, H. Eugene LeMay Jr., Bruce E. Bursten, Catherine Murphy, Patrick Woodward, Steven Langford, Dalius Sagatys, Adrian George, 2013-10-04 If you think you know the Brown LeMay Bursten Chemistry text think again In response to market request we have created the third Australian edition of the US bestseller Chemistry The Central Science An extensive revision has taken this text to new heights Triple checked for scientific accuracy and consistency this edition is a more seamless and cohesive product yet retains the clarity innovative pedagogy functional problem solving and visuals of the previous version All artwork and images are now consistent in quality across the entire text And with a more traditional and logical organisation of the Organic Chemistry content this comprehensive text is the source of all the information and practice problems students are likely to need for conceptual understanding development of problem solving skills reference and test preparation **Chemistry**, 2015-03-16 Chemistry for grades 9 to 12 is designed to aid in the review and practice of chemistry topics Chemistry covers topics such as metrics and measurements matter atomic structure bonds compounds chemical equations molarity and acids and bases The book includes realistic diagrams and engaging activities to support practice in all areas of chemistry The 100 Series science books span grades 5 to 12 The activities in each book reinforce essential science skill practice in the areas of life science physical science and earth science The books include engaging grade appropriate activities and clear thumbnail answer keys Each book has 128 pages and 100 pages or more of reproducible content to help students review and reinforce essential skills in individual science topics The series will be aligned to current science standards *Educart CBSE Class 12 Chemistry One Shot Question Bank 2026 (Includes PYQs for 2025-26)*, **Bibliography, with Abstracts, of AFCRL Publications from 1 January to 31 March 1971**, 1971

Ebook: Chemistry: The Molecular Nature of Matter and Change Silberberg, 2015-01-16 Ebook Chemistry The Molecular Nature of Matter and Change      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      Kirk-Othmer Concise Encyclopedia of Chemical Technology, 2 Volume Set Kirk-Othmer, 2007-07-16

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## **Unit 12 Solutions Solubility Curves Answer Key** Book Review: Unveiling the Magic of Language

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