



Student Exploration: Phase Changes

Directions: Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

Vocabulary: altitude, boil, boiling point, freeze, freezing point, gas, liquid, melt, melting point, phase, solid

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

Marla wants a hard-boiled egg for breakfast. The recipe says boil water, then lower the heat so the water is simmering. But Marla is in a rush, so she keeps the heat on high as the egg cooks.

Do you think the egg will be done faster if the heat is kept on high as the water boils?

No

Explain your answer.

If the water is kept high the egg will cook inconsistently so the outer and inner layers will be at different stages.

Gizmo Warm-up

In the *Phase Changes* Gizmo, select **Micro view** and set the **Ice volume** to 50 cm³. Notice the nitrogen (), oxygen (), and water () molecules.

To start, create ice. Set **Add/remove heat energy** to -200 J/s, click **Play** (), and then click **Pause** () when the container is about half ice, half water. Set **Add/remove heat energy** back to 0 J/s, and then click **Play**.



1. Observe water molecules in the **solid** (ice), **liquid** (water), and **gas** (air) **phases**.

A. In which phase(s) do molecules move freely?

Gas

B. In which phase(s) are molecules held together?

Solid

C. What do you notice about the positions of the ice molecules?

They are all about equal distance apart and more uniform than the air or water molecules.

2. Click **Reset** (), and select **Macro view**. Set the **Ice volume** to 25 cm³.

A. In which phase(s) is water held in a defined shape?

Solid

B. In which phase(s) does the water take the shape of the container?

Liquid

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Navigating Elementary Science Teaching and Learning Sophia Jeong, Lynn A. Bryan, Deborah J. Tippins, Chelsea M. Sexton, 2023-09-26 This book is a resource for both prospective and practicing elementary teachers as they learn to teach science in ways which foster the development of a community of science learners with multiple perspectives and diverse approaches to problem solving It includes cases that feature dilemmas embedded in rich narrative stories which characterize the lives of teachers of science and by extension their students and serve as tools for discussion critique and reflective practice The introduction to the book explores changing contexts for elementary science teaching and learning and describes how case based pedagogy can be used as a tool for both instruction and research Each subsequent section of the book includes cases that are organized around topics such as contemporary approaches to teaching elementary science new roles for technology and the creation of inclusive learning environments for all students in elementary science Each case is followed by reflective commentaries and concludes with questions for reflection and discussion Teachers will benefit from these cases as they explore the complexities and ambiguities of elementary science teaching and learning in today's classrooms

Social-Emotional Learning Through STEAM Projects, Grades 4-5 Season Mussey, 2022-02-27 Social Emotional Learning Through STEAM Projects Grades 4 5 helps educators target the development of social and emotional learning SEL competencies for high ability learners through interdisciplinary project based inquiry Aligned with STEAM content standards each of the nine projects introduces students to a real world problem through essential questions and the presentation of a primary source document Both the content and the inquiry process support SEL competency development from self awareness to selfmanagement social awareness relationship skills and responsible decision making As students work to understand and pose solutions to each problem they gain the knowledge and practical skills needed to become more socially and emotionally competent individuals in their classroom communities

Examcart NTA UGC General Paper 1 Teaching & Research Aptitude Question Bank Book In English Examcart Experts,

Intelligent Tutoring Systems James C. Lester, Rosa Maria Vicari, Fábio Paraguacu, 2004-08-18 This book constitutes the refereed proceedings of the 7th International Conference on Intelligent Tutoring Systems ITS 2004 held in Macei Alagoas Brazil in August September 2004 The 73 revised full papers and 39 poster papers presented together with abstracts of invited talks panels and workshops were carefully reviewed and selected from over 180 submissions The papers are organized in topical sections on adaptive testing affect architectures for ITS authoring systems cognitive modeling collaborative learning natural language dialogue and discourse evaluation machine learning in ITS pedagogical agents student modeling and teaching and learning strategies

More Picture-perfect Science Lessons Karen Rohrich Ansberry, Emily Rachel Morgan, 2007 Teacher's handbook for teaching science

Teaching Primary Science Constructively Keith Skamp, Christine Preston, 2017-09-05 Teaching Primary Science Constructively helps readers to create effective science learning experiences for primary students by using a constructivist

approach to learning This best selling text explains the principles of constructivism and their implications for learning and teaching and discusses core strategies for developing science understanding and science inquiry processes and skills Chapters also provide research based ideas for implementing a constructivist approach within a number of content strands Throughout there are strong links to the key ideas themes and terminology of the revised Australian Curriculum Science This sixth edition includes a new introductory chapter addressing readers preconceptions and concerns about teaching primary science

The American Biology Teacher ,1999 The Oxford Handbook of Positive Psychology and Disability Michael L. Wehmeyer,2013-09-19 This handbook is the first comprehensive text on positive psychology and disability Emphasizing paradigmatic changes in understanding disability the text covers traditional disciplines in positive psychology and applications of positive psychology to domains like education or work

Chemists' Guide to Effective Teaching Norbert J. Pienta,Melanie M. Cooper,Thomas J. Greenbowe,2005 For courses in Methods of Teaching Chemistry Useful for new professors chemical educators or students learning to teach chemistry Intended for anyone who teaches chemistry or is learning to teach it this book examines applications of learning theories presenting actual techniques and practices that respected professors have used to implement and achieve their goals Each chapter is written by a chemist who has expertise in the area and who has experience in applying those ideas in their classrooms This book is a part of the Prentice Hall Series in Educational Innovation for Chemistry

Social Studies and the Elementary/middle School Student Cynthia S. Sunal,Mary E. Haas,1993 Intelligent Tutoring Systems ,2004 Teaching for Experiential Learning Scott D. Wurdinger,Julie A. Carlson,2010 This book describes how to change the way in which educators conduct business in the classroom Our current educational systems lack ways to reach today s learners in relevant meaningful ways The five approaches in this book inspire and motivate students to learn The authors provide in depth descriptions into these overlapping approaches for experiential learning active learning problem based learning project based learning service learning and place based education Each of these five approaches includes an element of student involvement and attempts to engage students in solving problems The chapters are presented in a consistent easy to read format that provides descriptions history research ways to use the approach and resources This book will help educators transform their classrooms into dynamic learning environments

Australian Journal of Environmental Education ,1995 **The Watershed Whole-learning Activities Book** John P. Galassi,Mark Springer,1998 Social Studies for the Elementary and Middle Grades Cynthia S. Sunal,Mary E. Haas,2005 Discusses flexible strategies for teaching today s diverse learner the structure of the knowledge to be learned how to help students reconstruct and present ideas and how to translate theory and recent research into lesson plans and units All within a constructivist framework

September 9 2013 Ingrid Robinson took this book off the CRC shelf and asked that it be added to the Reserve Books Shelf

Pathways to Scientific Teaching Diane Ebert-May,Janet Hodder,2008 This book is based on a series of Pathways articles that illustrate effective instructional

methods to help students gain conceptual understanding in ecology It presents a philosophy of scientific teaching based on pedagogical principles designed to improve learning **Journal of College Placement** ,1979 **Science for All Children** Ralph E. Martin,1998 Grade level 1 2 3 4 5 6 7 e p i t *Instructional Technology for Teaching and Learning* Timothy J. Newby,2000 This book successfully integrates instructional design principles methods media and computing and it uses a learner centered approach that focuses on how to design solid technology enhanced instruction that increases learning It details the basic theories and applications of educational technology in a reader engaging format Includes a new chapter Using the Internet andDistance Education which is particularly timely given the explosion of on line technology For educators and school administrators *Multimedia and Videodisc Compendium* ,1995

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