

# Student Exploration: Phase Changes

Approximate time: 45 min

Grades: 8th-10th

Version: 1.0

Prerequisite Knowledge: Students should have a basic understanding of the scientific method.

1. In this activity, students will explore the phase changes of water. They will observe the changes in the state of water as it is heated and cooled, and they will record their observations.

**Objectives:** Students will be able to describe the phase changes of water and explain the changes in terms of the molecular structure of water.

**Materials:** A beaker of water, a thermometer, a heat source, and a cooling source.

**Procedure:** 1. Heat the water in the beaker until it reaches a boiling point. 2. Record the temperature of the water as it is heated. 3. Remove the beaker from the heat source and allow the water to cool. 4. Record the temperature of the water as it is cooled.

1. What happens to the temperature of the water as it is heated?

**Answer:** The temperature of the water increases as it is heated.

2. What happens to the temperature of the water as it is cooled?

**Answer:** The temperature of the water decreases as it is cooled.

3. What happens to the water as it is heated?

**Answer:** The water begins to boil and steam is produced.

4. What happens to the water as it is cooled?

**Answer:** The water begins to freeze and ice is produced.

Observations:	<p><b>What the student will see:</b></p> <ul style="list-style-type: none"> <li>• The water will begin to boil and steam will be produced.</li> <li>• The water will begin to freeze and ice will be produced.</li> </ul>
Phase changes:	<p><b>What the student will learn:</b></p> <ul style="list-style-type: none"> <li>• The water changes from a liquid to a gas as it is heated.</li> <li>• The water changes from a liquid to a solid as it is cooled.</li> </ul>

**Conclusion:** The phase changes of water are caused by the addition or removal of heat.

1. **Introduction:** In this activity, students will explore the phase changes of water. They will observe the changes in the state of water as it is heated and cooled, and they will record their observations.

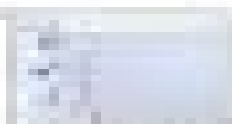
- a. What happens to the temperature of the water as it is heated? **It increases.** This is the **heating** process.
- b. What happens to the temperature of the water as it is cooled? **It decreases.** This is the **cooling** process.
- c. What happens to the water as it is heated? **It begins to boil and steam is produced.** This is the **boiling** process.

2. **Procedure:** Heat the water in the beaker until it reaches a boiling point. Record the temperature of the water as it is heated.

**Observations:** The water begins to boil and steam is produced. The temperature of the water increases as it is heated.

3. **Conclusion:** The phase changes of water are caused by the addition or removal of heat.

**Summary:** The phase changes of water are caused by the addition or removal of heat. The water changes from a liquid to a gas as it is heated, and from a liquid to a solid as it is cooled.



# Explore Learning Student Exploration Phase Changes Answers

**Norbert J. Pienta, Melanie M.  
Cooper, Thomas J. Greenbowe**



## **Explore Learning Student Exploration Phase Changes Answers:**

**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

*Learning and Collaboration Technologies* Panayiotis Zaphiris, Andri Ioannou, 2015-07-18 The LNCS volume 9192 constitutes the refereed proceedings of the Second International Conference on Learning and Collaboration Technologies LCT 2015 held as part of the 17th International Conference on Human Computer Interaction HCII 2015 in Los Angeles CA USA in August 2015 jointly with 15 other thematically similar conferences The total of 1462 papers and 246 posters presented at the HCII 2015 conferences were carefully reviewed and selected from 4843 submissions These papers address addressing the following major topics technology enhanced learning adaptive and personalised learning and assessment virtual worlds and virtual agents for learning collaboration and Learning Serious Games and ICT in education

*Action Science* William H. Robertson, 2014-03-19 Put student engagement on the fast track Think action sports like skateboarding and BMX have nothing to do with physical science Think again especially as they relate to fundamental physics concepts like motion force and simple machines not to mention the problem solving required What's more because kids will want to observing action sports is a perfect vehicle for promoting self directed and collaborative learning with Action Science as your driver's manual Through a combination of book and video Bill Robertson provides all the materials you'll need to get started with the NGSS very much in full view Inside and outside you'll find Detailed instructional methods on momentum center of gravity inertia and centrifugal and centripetal forces Hands on classroom activities and experiments including some utilizing common household materials Captivating video via QR codes of top professional and amateur extreme sports athletes demonstrating authentic high flying maneuvers Robertson an associate professor in science and technology education at the University of Texas at El Paso and an avid skateboarder has extensively piloted the Action Science program It works This is an outstanding resource for any middle school science teacher trying to engage

unmotivated students or implement problem based learning strategies in a way that is exciting and meaningful Melissa Miller Middle School Science Teacher Lynch Middle School Farmington AR      **Technology and Innovation in Learning, Teaching and Education** Meni Tsitouridou, José A. Diniz, Tassos A. Mikropoulos, 2019-05-28 This book constitutes the thoroughly refereed post conference proceedings of the First International Conference on Technology and Innovation in Learning Teaching and Education TECH EDU 2018 held in Thessaloniki Greece on June 20 22 2018 The 30 revised full papers along with 18 short papers presented were carefully reviewed and selected from 80 submissions The papers are organized in topical sections on new technologies and teaching approaches to promote the strategies of self and co regulation learning new TECH to SCRL eLearning 2 0 trends challenges and innovative perspectives building critical thinking in higher education meeting the challenge digital tools in S and T learning exploratory potentialities of emerging technologies in education learning technologies digital technologies and instructional design big data in education and learning analytics

**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      *Universal Design for Learning in the Classroom* Tracey E. Hall, Kristin H. Robinson, David Gordon, 2024-02-13 The Universal Design for Learning UDL framework has grown from its origins in special education to being widely used to support all students making the fully rewritten second edition of this indispensable guide more relevant than ever Filled with practical vivid examples and tips the book demonstrates the power of UDL when applied to particular content areas Specific teaching ideas are presented for literacy STEM project based learning career and technical education and the arts The editors and contributors describe practical ways to create thriving learning environments that use UDL to meet diverse learners needs New to This Edition Entirely new content Coverage expanded from elementary and middle grades to secondary and beyond Innovative approaches embracing the growth of UDL and the ubiquity of digital technologies in today s classrooms Spotlight on issues of equity and inclusion Chapters on antiracism social emotional learning career and technical education journey mapping and curriculum design Compelling discussions of advances in UDL principles and research directions      **Technology and Innovation in Learning, Teaching and Education** Arsénio Reis, João Barroso, J. Bernardino Lopes, Tassos Mikropoulos, Chih-Wen Fan, 2021-04-10 This book constitutes the thoroughly refereed post conference proceedings of the Second International Conference on Technology and

Innovation in Learning Teaching and Education TECH EDU 2020 held in Vila Real Portugal in December 2020 Due to the COVID 19 pandemic the conference was held in a fully virtual format The 27 revised full papers along with 15 short papers presented were carefully reviewed and selected from 79 submissions The papers are organized in topical sections on digital resources as epistemic tools to improve STEM learning digital technologies to foster critical thinking and monitor self and co regulation of e learning Covid 19 pandemic changes in educational ecosystem and remote teaching transforming teaching and learning through technology educational proposals using technology to foster learning competences STEM Project-Based Learning Robert M. Capraro, Mary Margaret Capraro, James R. Morgan, 2013-04-20 This second edition of Project Based Learning PBL presents an original approach to Science Technology Engineering and Mathematics STEM centric PBL We define PBL as an ill defined task with a well defined outcome which is consistent with our engineering design philosophy and the accountability highlighted in a standards based environment This model emphasizes a backward design that is initiated by well defined outcomes tied to local state or national standard that provide teachers with a framework guiding students design solving or completion of ill defined tasks This book was designed for middle and secondary teachers who want to improve engagement and provide contextualized learning for their students However the nature and scope of the content covered in the 14 chapters are appropriate for preservice teachers as well as for advanced graduate method courses New to this edition is revised and expanded coverage of STEM PBL including implementing STEM PBL with English Language Learners and the use of technology in PBL The book also includes many new teacher friendly forms such as advanced organizers team contracts for STEM PBL and rubrics for assessing PBL in a larger format *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 **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      **Primary Science Education** Anne Forbes,2023-06-15 Primary Science Education A Teacher s Toolkit is an accessible guide to primary science education and its effective practice in classrooms      **Transformative learning, teaching and action in the most challenging times** Lili-Ann Wolff,Kerry Shephard,Marco Rieckmann,Pedro Vega-Marcote,Dina Zoe Belluigi,Saiki Lucy Cheah,Frode Skarstein,2023-01-17      **Teaching for Experiential Learning** Scott D. Wurdinger,Julie A. Carlson,2009-12-16 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      **The Creative Spark in Education** Barrett Williams,ChatGPT,2025-08-30 Unleash the power of imagination in the classroom with The Creative Spark in Education a transformative guide designed to revitalize teaching methods and ignite student potential This comprehensive eBook delves into the pivotal role of creativity in modern education challenging conventional norms and fostering a culture where innovation thrives Start your journey by understanding creativity s core principles debunking common misconceptions and examining its vital role in today s educational landscape Explore the foundations of a creative classroom and learn how to cultivate an environment that inspires originality and critical thinking Harness the burgeoning power of technology and adapt mindsets that fuel inventive ideas Take your teaching strategies to the next level with innovative approaches like project based learning and gamification Dive into the nuances of building a supportive and collaborative community that champions creativity among educators and students alike With chapters dedicated to creativity across all areas of the curriculum including STEM the arts and language you ll discover exciting ways to integrate creative thinking into every subject Navigate the complexities of assessing creativity with strategies that strike a balance between traditional and creative evaluations Overcome barriers that stifle innovation with practical solutions and insights Gain inspiration from real life case studies of schools that have successfully embraced creative programs and prepare for the future by exploring trends and predictions that will shape education Equipped with resources tools and professional development strategies this book provides an invaluable roadmap for educators administrators and policy makers Empower yourself and your students engage parents and communities and address diverse learning needs to unleash the full creative potential of the next generation Ignite the creative spark within your educational practice and witness the transformative power of creativity reshaping the future of learning      **Stability and Change in Science Education -- Meeting Basic**

**Learning Needs** ,2018-11-26 In this book the editors consider the resistance to change among teachers and learners despite all the evidence that science participation brings benefits for both individuals and nations Beginning with biology Stability and Change in Science Education Meeting Basic Learning Needs explores this balance in teaching and learning science The authors reflect upon this equilibrium as they each present their work and its contribution The book provides a wide range of examples using the change stability lens Authors from the Netherlands Israel Spain Canada and the USA discuss how they observe and consider both homeostasis and novelty in theory projects and other work The book contains examples from science educators in schools and in other science rich settings Contributors are Lucy Avraamidou Ayelet Baram Tsabari Michelle Crowl Marilynne Eichinger Lars Guenther Maria Heras Phyllis Katz Joy Kubarek Lucy R McClain Patricia Patrick Wolff Michael Roth Isabel Ruiz Mallen Lara Smetana Hani Swirski Heather Toomey Zimmerman and Bart Van de Laar

**Bulletin of the Atomic Scientists** ,1973-10 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin s iconic Doomsday Clock stimulates solutions for a safer world **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 **Resources in Education** ,2001-04 [A Survival Guide for New Special Educators](#) Bonnie S. Billingsley,Mary T. Brownell,Maya Israel,Margaret L. Kamman,2013-03-08 What every special education teacher needs to know to survive and thrive A Survival Guide for New Special Educators provides relevant practical information for new special education teachers across a broad range of topic areas Drawing on the latest research on special educator effectiveness and retention this comprehensive go to resource addresses the most pressing needs of novice instructors resource teachers and inclusion specialists Offers research based classroom tested strategies for working with a variety of special needs students Covers everything from preparing for the new school year to behavior management customizing curriculum creating effective IEPs and more Billingsley and Brownell are noted experts in special educator training and support This highly practical book is filled with checklists forms and tools that special educators can use every day to help ensure that all special needs students get the rich rewarding education they deserve

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