Name: _____ Date: _____

Student Exploration: Phase Changes

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

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

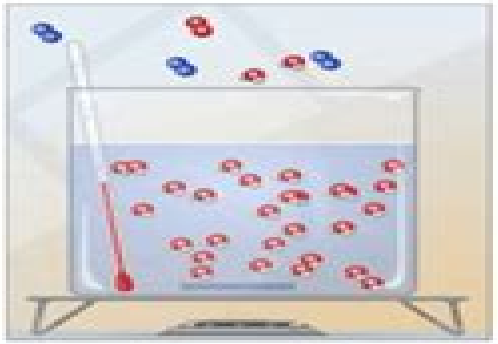
1. A family from Minnesota turns off the heat and flies to Florida for a winter holiday. When they come home, all of their water pipes have burst. What do you think happened?

   All the water in the pipes froze causing them to expand and burst the pipe.

2. Spaghetti takes about 9 minutes to cook at sea level, but about 14 minutes in the mountains. Why do you think this is so?

   The boiling point of water is lower their meaning the water is cooler causing the pasta to cook slower.

Gizmo Warm-up
In the *Phase Changes* Gizmo, select **Micro view** and set the **Ice volume** to 50 cm^3. Notice the nitrogen ( ), oxygen ( ), and water ( ) molecules.



Click **Play** ( ) and observe water molecules in the **solid** (ice), **liquid** (water), and **gas** (air) **phases**.

1. In which phase(s) are the molecules held rigidly together? solid

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

   Gas, liquid

3. In which phase(s) are the molecules held in a defined shape? Solid, liquid

4. In which phase(s) do the molecules take the shape of their container? Liquid

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Explore Learning Exploration Phase Changes Worksheet Answers

Araujo, Juan J.,Snider, Sharla

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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 *Harnessing AI's Potential to Support Student Success and Teaching Excellence* Araujo, Juan J.,Snider, Sharla,2025-07-15 With the integration of AI in educational environments AI has shaped the way schools operate and support students Personalized learning platforms and tutoring systems have transformed the traditional schooling system for the better However the deployment of AI in school settings also raises critical questions around equity privacy ethical use and the role of educators in a technology enhanced landscape Examining the impact of AI usage in schools is essential to understand both its potential to enhance educational outcomes and the challenges that must be addressed to ensure it serves all learners effectively and responsibly Harnessing AI s Potential to Support Student Success and Teaching Excellence explores the landscape of AI in education and how it has helped and hindered school settings This book highlights both the transformative potential of AI and the risks associated with its unchecked advancement emphasizing the importance of responsible innovation in education Covering topics such as education AI and technology this book is an excellent resource for teachers administrators and policymakers searching for the right approach for such AI implementation

Choosing Web 2.0 Tools for Learning and Teaching in a Digital World Pam Berger,Sally Trexler,2010-04-09 Choosing Web 2 0 Tools for Learning and Teaching in a Digital World provides practical strategies and examples to effectively integrate Web 2 0 tools to support the inquiry process in the school library program and the classroom curriculum Targeted for school librarians this book addresses the questions What is digital literacy How is learning different in a digital world And the most important questions what are the best strategies resources and tools to support effective teaching and learning in a digital environment The first two chapters of the book provide the important context for school librarians research on student learning behaviors in a digital environment Web 2 0 background and characteristics and alignment with the new AASL Standards for the Twenty first Century Learner and the Stripling Inquiry Process Grades 4 12 More Everyday Engineering Richard H. Moyer,Susan A. Everett ,2016-08-01 What makes a windup toy get up and go How does an earbud operate And why does the line you re waiting in always seem the slowest Get middle schoolers engaged in the

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