



Name:

Date:

Student Exploration: Phase Changes (4b)

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

Activity B:

Temperature and molecular motion

Get the Gizmo ready:

- Click **Reset**, and select the **Micro view**.
- Set **Ice volume** to 0 cm^3 .
- Set **Add/remove heat energy** to 0 J/s .



Question: Why do phase changes occur?

1. **Compare:** Set the **Water temperature** to 0 $^{\circ}\text{C}$ and click **Play**. Observe the water molecules. Click **Reset**, set the **Water temperature** to 100 $^{\circ}\text{C}$, and click **Play** again.

What do you notice?

There is no difference.

2. **Observe:** Click **Reset**. The **mean molecular speed** of the water molecules is displayed below the container. Set the **Water temperature** to 0 $^{\circ}\text{C}$ and **Add/remove heat energy** to 400 J/s . Click **Play**.

A. How does the mean speed of the water molecules change as they are heated?

The water gets hotter (has more heat energy).

B. Does the mean molecular speed change as much as the temperature as the water heats up? Explain.

Yes, the more the temperature increases the more the molecules of the water speed up (until they hit the boiling point, where they cannot get hotter any longer.)

3. **Explain:** How is temperature related to the motions of molecules?

The higher the temperature, the faster the molecules move.

4. **Observe:** Click **Reset**. Set the **Water temperature** to 20 $^{\circ}\text{C}$ and the **Ice volume** to 50 cm^3 . Set **Add/remove heat energy** to 0 J/s . Click **Play**. How do the molecules in the liquid interact with the molecules in the solid?

Phase Changes Answers Gizmo

John Vandermeer



Phase Changes Answers Gizmo:

Christakis's Rebellious Wife Lynne Graham,2014-07-01 They have nine months to save their marriage in this second chance romance from the USA Today bestselling author of Ravelli s Defiant Bride Nik Christakis had once been her Prince Charming the indecently rich and devilishly handsome tycoon who took Betsy away from her life as a waitress and did the unimaginable made her his wife But married life wasn t the fantasy she d envisioned Now as her hand hovers over the divorce papers Betsy sees something in her husband s eyes a glimmer of the man she first fell in love with But when this encounter ends in reckless passion Betsy is left with two very unexpected consequences that will forever tie her to the man she was determined to forget A well written romance which has the right amount of angst and intensity Harlequin Junkie

Digital Filmmaking Thomas Ohanian,Natalie Phillips,2013-04-03 Digital Filmmaking has been called the bible for professional filmmakers in the digital age It details all of the procedural creative and technical aspects of pre production production and post production within a digital filmmaking environment It examines the new digital methods and techniques that are redefining the filmmaking process and how the evolution into digital filmmaking can be used to achieve greater creative flexibility as well as cost and time savings The second edition includes updates and new information including four new chapters that examine key topics like digital television and high definition television making films using digital video 24 P and universal mastering and digital film projection Digital Filmmaking provides a clear overview of the traditional filmmaking process then goes on to illuminate the ways in which new methods can accomplish old tasks It explains vital concepts including digitization compression digital compositing nonlinear editing and on set digital production and relates traditional film production and editing processes to those of digital techniques Various filmmakers discuss their use of digital techniques to enhance the creative process in the Industry Viewpoints sections in each chapter Principal ,2007 *The Alcalde* ,1991-03 As the magazine of the Texas Exes The Alcalde has united alumni and friends of The University of Texas at Austin for nearly 100 years The Alcalde serves as an intellectual crossroads where UT s luminaries artists engineers executives musicians attorneys journalists lawmakers and professors among them meet bimonthly to exchange ideas Its pages also offer a place for Texas Exes to swap stories and share memories of Austin and their alma mater The magazine s unique name is Spanish for mayor or chief magistrate the nickname of the governor who signed UT into existence was The Old Alcalde *The Elementary School Library Collection, Phases 1-2-3* ,2000 *Electronic Publishing Unleashed* William R. Stanek, Lee Purcell,1995 Unleash the power of electronic publishing with this book CD package that shows publishers how to create market sell and distribute their products digitally on CD ROM and on the Internet Users will learn the techniques through hands on projects and tips from experts The CD contains an electronic version of the entire book in hypertext format and an assortment of software *Zen and the Art of Racing Motorcycles* Gregg Wright Bonelli,2014-11-17 Gregg Bonelli born with an inquisitive mind and competitive nature has had the desire to go fast since 1964 when he discovered his true

self through racing motorcycles In this colorful and creative tribute to his love of motorcycling and racing Bonelli shares insights into life and death from the seat of a racing motorcycle that vividly celebrate the lifestyle he has embraced for fifty years Bonelli offers a fascinating glimpse into the thought processes and life of a motorcycle racer as he made lasting friendships raced at speeds most would think insane and met eclectic characters along the way With his mind constantly on motorcycles and the next race Bonelli details how the rest of his life seemed only incidental to his obsession with going fast Whether racing on a 250 Harley Sprint or a TZ750 Yamaha Bonelli shares anecdotes poetry and prose that illuminate the pure joy of what it is like to count down the minutes until he can zip his leathers hop in his van with his bike in the back and head out to race again Zen and the Art of Racing Motorcycles shares a seasoned motorcycle racers perspective on why he loves to ride with the wind with the throttle wide open and nothing but excitement and the possibility of a win before him

CD Review ,1993 *Reconstructing Biology* John Vandermeer,1996-05-02 Rave reviews for *Reconstructing Biology* It is just the sort of book I would have expected from John Vandermeer who for his entire professional life has been a leading voice in trying to make people understand the true nature of the forces that are both inside and outside of human beings and the correct relationship between human beings and the rest of nature R C Lewontin Harvard University For over a decade now we have been inundated by massive tomes on the nature of race by psychologists and sociologists poorly trained in genetics and biology Now at last a preeminent biologist explains the true nature of race differences The combination of scientific clarity political insight and historical acumen makes this one of the most important books yet published on the subject of race and racism Barry Mehler Ferris State University Given the frequency with which we meet simplistic claims today that social behaviors such as criminality alcoholism shyness homosexuality or infidelity are genetically determined *Reconstructing Biology* should be required reading for all students in the social as well as natural sciences Garland E Allen Washington University in St Louis A biologist takes a probing look at some of the most important questions facing postmodern civilization In *Reconstructing Biology* noted biologist and educator John Vandermeer explores the ways in which the science of biology has been and continues to be misinterpreted and misappropriated on behalf of some of the most pernicious doctrines and policies of the past 200 years From the politics of genetics to the biology of IQ *Reconstructing Biology* is must reading for anyone concerned about the role of science in the most important social and political issues of our time *Quantico Leatherneck* ,1946 **F & S Index United States Annual** ,2005 Network World ,2002-05-20 For more than 20 years Network World has been the premier provider of information intelligence and insight for network and IT executives responsible for the digital nervous systems of large organizations Readers are responsible for designing implementing and managing the voice data and video systems their companies use to support everything from business critical applications to employee collaboration and electronic commerce **Webmastering For Dummies** Daniel A. Tauber,Brenda Kienan,2000-11-15 Two noted Webmasters share techniques gained from the implimentation and

administration of Web servers for major organizations covering content development production design programming and management

Completing the Computer Puzzle Suzanne Thouvenelle, Cynthia J. Bewick, 2003 This unique book connects solid knowledge of early education principles with technical computer experiences emphasizing the role of the teacher and her responsibility for meaningful integration of computer technology in the early childhood classroom In an easy to read format this book combines an informal style with clear graphics diagrams and photographs to enhance every learner s understanding of the critical issues in using computers with young children Themes range from how to use computers to supporting brain based learning to identifying software that provides electronic portfolios for authentic assessment Other subjects include choosing appropriate hardware establishing and introducing classroom computer centers integrating computers with curriculum common computer myths involving parents and using the Internet Early childhood educators teachers school administrators and parents

The Stone Age Antony Mason, 1996 The Time Trekkers learn about cave painting building a mammoth bone hut craft tools of stone and outwit a saber tooth tiger

Choice ,2000 Stanford

Exploration Project ,1987 *Hoosier Farmer* ,1994 **Power and the Engineer** ,1977 *New Scientist* ,2007

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