



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<sup>3</sup>.
- Set **Add/remove heat energy** to 0 J/s.



**Question:** Why do phase changes occur?

1. **Compare:** Set the **Water temperature** to 0 °C and click **Play**. Observe the water molecules. Click **Reset**, set the **Water temperature** to 100 °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 °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 °C and the **Ice volume** to 50 cm<sup>3</sup>. 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?

# Gizmo Activity A Phase Changes

**The Urban Rainmaker**



## **Gizmo Activity A Phase Changes:**

**The Evolution of Robert Carr** Paul K. Lovett, 2015-04-10 Paul K Lovett's science fiction satire *The Evolution of Robert Carr* is an audacious operatic romp through a dystopian near future where genetic enhancements have pushed the divide between rich and poor ever closer to its social breaking point. The subversive tale opens on Robert Carr's eighteenth birthday when he is about to join the top 2%% of the population by becoming a recipient of an exorbitantly expensive neural enhancement procedure. Yet Robert is rather uniquely reticent to the prospect. He fears becoming distant, cold, inhuman like his enhanced best friend. And that his girlfriend, one of the revolutionary Dragoons, will spurn him. Lovett has crafted a sci-fi novel with sharp social commentary that cleverly examines such issues as the staggering income gap, the emerging role of technology, and the place of religion in a tech-driven world. [Kirkus Reviews](#)

**Dark Future** Glenn Beck, 2023-07-11 In *Dark Future: Uncovering the Great Reset's Terrifying Next Phase*, New York Times bestselling authors Glenn Beck and Justin Haskins reveal the most important technologies and social and cultural changes that will soon cause an unprecedented level of disruption in the United States as well as in countless other nations. They also outline the dangers and opportunities associated with these disruptions and provide a plan to protect individuals and families from losing their liberty. [Amazon](#)

**The Urban Dream Surfer** *The Urban Rainmaker*, 2010-09 Would you dare to follow random coincidences? You may just want to after reading this. The book includes *The Black Swan Enigma* and comes also with a return policy refund. So for any reason you don't like this book, you can send it back. All books returned go to HM prison library's [Delivery Methods & Knowledge Retention on Teacher Wellness](#). Dr. John Beliard, 2016-08-08 A significant body of research indicates teachers are suffering from stress, which leads to a variety of physical ailments, drinking, and high turnover rate. This research assessed a comprehensive educational intervention wellness program aimed at increasing teachers' knowledge of health and wellness. This research implemented an instructional intervention wellness program to increase teachers' knowledge of health and wellness delivered in web-based and face-to-face formats. The delivery formats were compared to determine which one was more effective in improving wellness knowledge retention for grades K-5 educators. Fifty teachers completed the wellness intervention. A paired sample t-test and factorial MANOVA was used to determine differences in increased knowledge. The results of paired samples t-tests for both the web-based and the face-to-face participants were statistically significant. The results of the factorial MANOVA were not significant, suggesting a need for further research. [Spring Meeting](#) American Geophysical Union. Meeting, 1998

**Complete Guide to Video** John J. Adams, 1997 Explains video technology systems in easy-to-understand language and outlines the common components of modern audio-video equipment. Provides details and features of the newest gadgets and will help with shopping choices by providing answers that the average salesperson does not know. *The Wire*, 2005 [New Scientist and Science Journal](#), 2006 [How to Keep Your Volkswagen Alive!](#) Fisher, John Muir, Tosh Gregg, 1986-10 How to work on your Volkswagen [Linguistics and Language Behavior Abstracts](#)

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