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Date: 07-08-2022

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.)

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?

The water in the pipe froze and made them burst

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?

There, the water has a lower boiling point, which results in colder water and slower pasta cooking

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.

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?

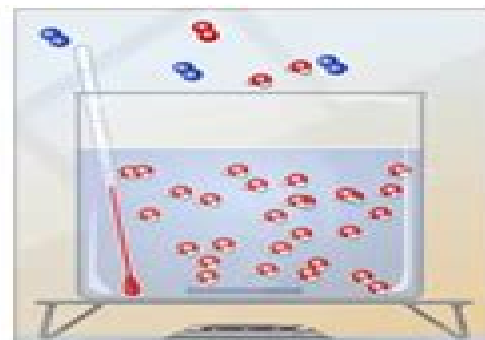
Gas and liquid

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

Solid and liquid

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

Liquid



Phase Changes Gizmo Answer

Arturo Cuomo

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Phase Changes Gizmo Answer:

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 *New Scientist* ,2006 New York Magazine ,1993-03-22 New York magazine was born in 1968 after a run as an insert of the New York Herald Tribune and quickly made a place for itself as the trusted resource for readers across the country With award winning writing and photography covering everything from politics and food to theater and fashion the magazine s consistent mission has been to reflect back to its audience the energy and excitement of the city itself while celebrating New York as both a place and an idea Stanford Exploration Project ,1987 **The Washington Post Index** ,2009 **Phase Changes at Extremes** Jonathan Curley,2010 **Phase Change Materials** Simone Raoux,Matthias Wuttig,2010-06-10 Phase Change Materials Science and Applications provides a unique introduction of this rapidly developing field Clearly written and well structured this volume describes the material science of these fascinating materials from a theoretical and experimental perspective Readers will find an in depth description of their existing and potential applications in optical and solid state storage devices as well as reconfigurable logic applications Researchers graduate students and scientists with an interest in this field will find Phase Change Materials to be a valuable reference **Phase Changes and Spectral Shifts** W. W. Robertson,S. E. Babb (Jr.),University of Texas at Austin. Department of Physics,1957

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Phase Changes Gizmo Answer Introduction

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