



Gizmos

Convection Cells

Answer Key

Vocabulary: convection, convection cell, density, global conveyor belt, mantle, mid-ocean ridge, subduction zone, vector, viscosity

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

[Note: The purpose of these questions is to activate prior knowledge and get students thinking. Students are not expected to know the answers to the Prior Knowledge Questions.]

You place a pot of soup on the stove. As the soup warms you notice some areas where soup is rising up and other areas where soup is sinking down.



1. Why do you think some of the soup is rising up?

Answers will vary. [The heated soup at the bottom of pot rises because it is less dense than the surrounding soup.]

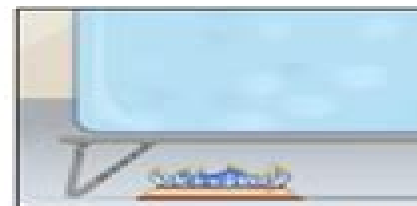
2. Why do you think some of the soup is sinking down?

Answers will vary. [When the soup reaches the surface it cools, becomes denser, and sinks.]

Gizmo Warm-up

When fluids (gases or liquids) are heated, they tend to move. This motion is called **convection**. In the *Convection Cells* Gizmo, you will observe and experiment with convection both in a laboratory setting and in several real-world examples.

To begin, note the laboratory setup on the MODEL tab. A beaker of liquid is placed above a gas burner. Click **Play** (▶). The burner is now heating the fluid.



1. What do you notice?

The liquid seems to swirl around in a circle.

2. Drag the eyedropper into the beaker just above the burner and let go to release a drop of orange liquid into the beaker. What do you notice about the path of the drop?

The drop goes up above the burner, rises to the top, goes to the right, sinks down, and then moves back to the left to start the circulation again.



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C Cleary

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the 'C Cleary' text.

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Using Physical Science Gadgets and Gizmos, Grades 6-8 Matthew Bobrowsky, Mikko Korhonen, Jukka Kohtamäki, 2014-04-01 What student or teacher can resist the chance to experiment with Rocket Launchers Sound Pipes Drinking Birds Dropper Poppers and more The 35 experiments in Using Physical Science Gadgets and Gizmos Grades 6 8 cover topics including pressure and force thermodynamics energy light and color resonance and buoyancy The authors say there are three good reasons to buy this book 1 To improve your students thinking skills and problem solving abilities 2 To get easy to perform experiments that engage students in the topic 3 To make your physics lessons waaaaay more cool The phenomenon based learning PBL approach used by the authors two Finnish teachers and a U S professor is as educational as the experiments are attention grabbing Instead of putting the theory before the application PBL encourages students to first experience how the gadgets work and then grow curious enough to find out why Students engage in the activities not as a task to be completed but as exploration and discovery The idea is to help your students go beyond simply memorizing physical science facts Using Physical Science Gadgets and Gizmos can help them learn broader concepts useful thinking skills and science and engineering practices as defined by the Next Generation Science Standards And thanks to those Sound Pipes and Dropper Poppers both your students and you will have some serious fun For more information about hands on materials for Using Physical Science Gadgets and Gizmos books visit Arbor Scientific at <http://www.arborsci.com/nsta-kit-middle-school> *1001 Best Websites for Kids* Lynn C. Gustafson, Deirdre Kelly, 2001 **Computational Intelligence**, 1988

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