



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.]

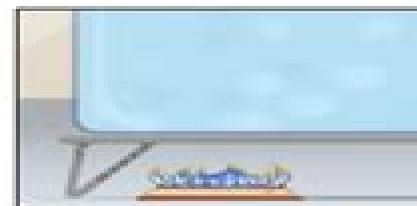
2. Why do you think some of the soup is sinking down?

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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Children's Software Review



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