

Name: _____

Date: _____

Student Exploration: Conduction and Convection

Vocabulary: conduction, conductor, convection, insulator

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

1. Two pots have been sitting on the stove for a while. One pot has a copper handle and the other has a wooden handle. Which handle would you rather touch? Why?

Wooden handle. Because copper is a great conductor so it will burn
my hand when heated, but wood is not a conductor so it'll be safer.

2. One of the pots is filled with soup. The soup at the bottom of the pot is warmed by the stove burner, but how does the soup at the top get hot?

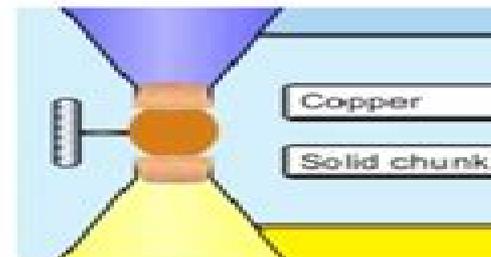
Because the hot particles goes up and cool particles comes down due to the
convection, and when the cool particles gets hot, they goes up again and keep rotates.

Gizmo Warm-up

The *Conduction and Convection Gizmo™* shows two flasks of colored water, one blue and one yellow. Select **Copper** and **Solid chunk** from the dropdown lists. (This means the two flasks are separated by a solid piece of copper, and the two liquids cannot touch each other.)

1. Use the sliders to make one flask hotter than the other.

Click **Play** (). What happens? The temperature
between two flasks tries to even out.



2. Select the **Data** tab and look at the graph. What do the blue curve and the yellow curve represent?

- A. The blue curve represents changes of the temp. of the blue flask over time
 B. The yellow curve represents changes of the temp. of the yellow flask over time

3. What is the final temperature of the top flask? 52.5 C Bottom flask? 47.5 C

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