

Name: \_\_\_\_\_ Date: \_\_\_\_\_

## Student Exploration: Conduction and Convection

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**Vocabulary:** conduction, conductor, convection, insulator

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

- 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?

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- 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?

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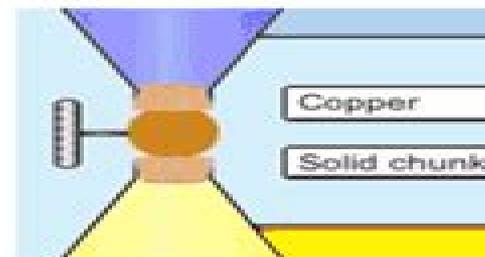
### Gizmo Warm-up

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.)

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

Click **Play** (  ). What happens? \_\_\_\_\_

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

- The blue curve represents \_\_\_\_\_
- The yellow curve represents \_\_\_\_\_

- What is the final temperature of the top flask? \_\_\_\_\_ Bottom flask? \_\_\_\_\_

# Gizmo Answer Key Heat Transfer Conduction

**Lei Shi**



**Gizmo Answer Key Heat Transfer Conduction:**

Uncover the mysteries within Explore with is enigmatic creation, **Gizmo Answer Key Heat Transfer Conduction** . This downloadable ebook, shrouded in suspense, is available in a PDF format ( \*). Dive into a world of uncertainty and anticipation. Download now to unravel the secrets hidden within the pages.

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