



Name:

Date:

2-10-22

Conduction and Convection

Directions: Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

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?

The wooden handle, because the copper is a conductor

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?

convection

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?

Each liquid is trying to adjust to the other temperature to reach an equilibrium.



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

The blue liquids temperature

B. The yellow curve represents

The yellow liquids temperature

3. What is the final temperature of the top flask?

55.0 c

Bottom flask?

55.0 c

Conduction And Convection Gizmo Answer Key

R Barnett

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.

Conduction And Convection Gizmo Answer Key:

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