



Name:

Date:

## Student Exploration: Heat Transfer by Conduction

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

**Vocabulary:** conduction, convection, insulate, radiation, thermal conductor, thermal energy, thermal insulator

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

Suppose two frying pans have been left on the stove with the burners on. One of the frying pans has a metal handle and the other has a wooden handle.

1. Which handle do you think you could safely touch?

The wooden handle.

2. Why do you think one handle will be cooler than the other?

Because wood conducts less heat than metal.

### Gizmo Warm-up

Heat, also called **thermal energy**, can be transmitted through space (**radiation**), by moving fluids (**convection**), or through direct contact. This final method, called **conduction**, is explored in the *Heat Transfer by Conduction* Gizmo.

To begin, check that **Aluminum** is selected. Select the **BAR CHART** tab and turn on **Show numerical values**.



1. What is the initial temperature of each beaker? **Beaker A**

95°

**Beaker B**

5°

2. Click **Play** (▶) and observe.

A. What happens to the temperature of **Beaker A** over time?

The temperature decreases overtime then ends at 50°.

B. What happens to the temperature of **Beaker B** over time?

The temperature increases overtime then ends at 50°.

3. Why do you think the temperatures of **Beaker A** and **Beaker B** changed as they did?

The aluminum is conducting the heat from the warmer beaker to the cooler one until they are at the same temperature.

# Student Exploration Heat Transfer By Conduction Answers

**Julia Schneider**



**Student Exploration Heat Transfer By Conduction Answers:**

Discover tales of courage and bravery in Crafted by is empowering ebook, Unleash Courage in **Student Exploration Heat Transfer By Conduction Answers** . In a downloadable PDF format ( PDF Size: \*), this collection inspires and motivates. Download now to witness the indomitable spirit of those who dared to be brave.

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