



Name: Ismail

Date: June 15th, 2022

## 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?

# Gizmos Heat Transfer Answer Key

**M Woodhall**

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.

## **Gizmos Heat Transfer Answer Key:**

## Reviewing **Gizmos Heat Transfer Answer Key**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Gizmos Heat Transfer Answer Key**," an enthralling opus penned by a highly acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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