

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

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

## Student Exploration: Heat Transfer by Conduction

**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.

- Which handle do you think you could safely touch? The wood one
- Why do you think one handle will be cooler than the other? I think the wood one would be cooler because it is not a conductor, like the metal one.

**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**.

- What is the initial temperature of each beaker? **Beaker A** : 95 °C **Beaker B**: 5 °C

- Click **Play** (▶) and observe.

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

The temperature decreases fast to 50 °C

°C

- What happens to the temperature of **Beaker B** over time? The temperature increases to 50°C.

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

Because when you transfer energy, it goes from hot to cold and it stops when the temperature is the same

# Gizmo Student Exploration Heat Transfer By Conduction Answer Key

**AW Chickering**



## **Gizmo Student Exploration Heat Transfer By Conduction Answer Key:**

The Enigmatic Realm of **Gizmo Student Exploration Heat Transfer By Conduction Answer Key**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **Gizmo Student Exploration Heat Transfer By Conduction Answer Key** a literary masterpiece penned by way of a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting effect on the hearts and minds of people who partake in its reading experience.

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