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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?

Gizmo Answer Key Heat Transfer Conduction

SA Dillow



Gizmo Answer Key Heat Transfer Conduction:

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