

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

- 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

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