



## Student Exploration: Heat Transfer by Conduction

**Essential Question:** How does heat transfer by conduction occur, and what factors affect the rate of heat transfer?

**Prerequisite Knowledge/Skills:** Students will need to know the following:

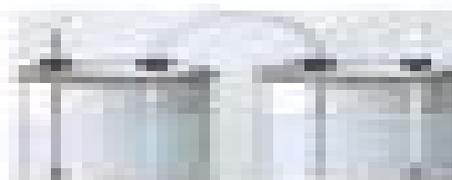
Students have a basic understanding of heat and temperature. They understand that heat is a form of energy transfer and that temperature is a measure of the average kinetic energy of particles.

1. What factors affect the rate of heat transfer?
2. Why do particles transfer energy from the solid?

**Classroom Activity**

Students will use the **Heat Transfer by Conduction** simulation to explore how heat is transferred through a solid. They will observe the movement of particles and the transfer of energy through the solid.

The large blocks that represent the solid are labeled **Block A** and **Block B**. They are connected by a thin metal rod.



3. What is the initial temperature of **Block A**? **Block B**?
4. Click **Play**   **Simulation**.
  - a. How does the temperature of **Block A** over time?
  - b. How does the temperature of **Block B** over time?
5. Why do particles transfer energy from **Block A** to **Block B** over time?



# Student Exploration Heat Transfer By Conduction Answers

**PT Brinkman**



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