



## 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:

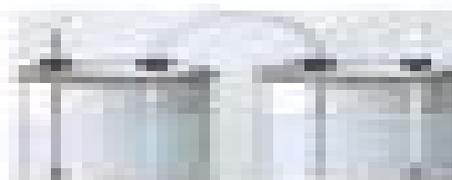
Students have a basic understanding of heat and temperature. They understand that heat is a form of energy transfer and that temperature is a measure of the average kinetic energy of particles.

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 particles and the energy transfer between them. They will also observe the effect of temperature on the rate of heat transfer.

The large blocks that represent the particles in the simulation 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.    
  - a. How does the temperature of **Block A** change over time?
  - b. How does the temperature of **Block B** change over time?
5. Why do particles transfer energy from **Block A** to **Block B** (or vice versa)?



# Student Exploration Heat Transfer By Conduction Answers

**Lingjun Ying**



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