



Convection and the Mantle

Inquiry Warm-Up, *Tracing Heat Flow*

In the Inquiry Warm-Up, you investigated how convection plays a part in all heating systems. Using what you learned from that activity, answer the questions below.

1. **IDENTIFY** What heating system is used to heat your home? What is used to heat the air?

2. **EXPLAIN** Once the air is heated, how does the air circulate through your home? Explain the evidence of convection currents.

3. **OBSERVE** Describe the flow of the warm and cool air in a room. What part of the room gets warm first? Why?

4. **COMMUNICATE** In the space below, draw a diagram of the heat flow through your home. Use arrows to indicate how the convection currents flow.

