

What is Heat Conduction?

Heat conduction is the transfer of heat between objects that are touching each other. Heat always moves from warmer objects to cooler objects. Some materials conduct heat better than others!

Good Conductors

Materials that let heat pass through them easily:

- Metals (Copper, Aluminium, Iron)
- Silver
- Gold
- Steel

These materials feel cold because they quickly conduct heat away from your warm hand!

Poor Conductors (Insulators)

Materials that block heat from passing through:

- Wood
- Plastic
- Rubber
- Styrofoam
- Air
- Wool and cotton

These materials feel warm to touch because they don't conduct heat away from your warm hand!

Activity: Classify the materials

Look at the items below. Write each item in the correct column based on whether it's a good conductor or an insulator (poor conductor).

Items: Copper spoon, Wooden spoon, Glass cup, Aluminium foil, Rubber glove, Iron nail, Plastic ruler, Cotton shirt, Metal pot, Styrofoam cup.

Good Conductors

Insulators