

Heat Revision Questions

1. List the ways in which heat can be transferred
2. How is heat transferred in copper?
3. Choose the most suitable material from the list below.
You may use a material more than once

Copper	Polystyrene	Glass	Aluminium
Wood	Air	Iron	Fibreglass

- a) A beaker to keep a hot chocolate warm for longest
 - b) A base for a saucepan
 - c) A handle for a saucepan
 - d) A material for insulating the roof of a house
4. Copy and complete the table with the materials from Q3

Conductors	Insulators

5. State whether these **WOULD** or **WOULD** not insulate a house and reduce heat loss
 - a) Switching off lights
 - b) Loft insulation
 - c) Cavity wall insulation
 - d) Increasing the thermostat setting
 - e) Lowering the thermostat setting

6. It is very slippery outside because the Beast from the East returned for Round 2. You slip, but manage to stop yourself falling by gripping a metal railing.
- a) Which way does the heat move between the railing and your hand?
 - b) Would this be affected by you wearing gloves?
 - c) What would the same railing feel like on a hot summer day?
7. List all the ways heat transfer from the home can be reduced