

1. What will the total temperature of the water be if you put ALL THE ICE into the cup of water (temperature = 25°C)?



5°C



5°C



5°C



5°C



Cup of water = 25°C

Total temperature:

2. What will the total temperature of the water be if you put ALL the cups of HOT WATER into the cup of water (temperature = 25°C)?



5°C



5°C



5°C



5°C



Cup of water = 25°C

Total temperature:

3. What will the temperature of the water be if you put ALL THE ICE into the cup of water (temperature =  $25^{\circ}\text{C}$ )?



$4^{\circ}\text{C}$



$4^{\circ}\text{C}$



$3^{\circ}\text{C}$



$3^{\circ}\text{C}$



Cup of water =  $25^{\circ}\text{C}$

Total temperature:

4. What will the temperature of the water be if you put both the cups of HOT WATER and the ICE into the cup of water (temperature =  $25^{\circ}\text{C}$ )?



$10^{\circ}\text{C}$



$10^{\circ}\text{C}$



$5^{\circ}\text{C}$



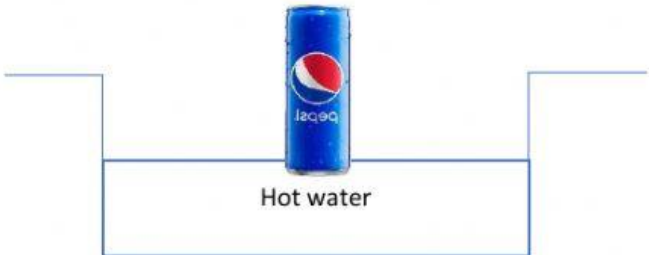
$5^{\circ}\text{C}$



Cup of water =  $25^{\circ}\text{C}$

Total temperature:

5. Will the can or cup of water **GAIN** or **LOSE** heat? At which direction will the heat flow, **UP** or **DOWN**?




A blue Pepsi can is shown floating in a container of hot water. The container is represented by a blue outline with a horizontal line indicating the water level. The text 'Hot water' is written below the water level line.

Pepsi Can

Hot water

Direction of heat flow?



A black and white photograph of a cup of hot water with steam rising from it is shown floating in a container of cold water. The container is represented by a blue outline with a horizontal line indicating the water level. The text 'Cold water' is written below the water level line.

Cup of hot water

Cold water

Direction of heat flow?

6. Drag and drop the objects into good or bad conductors of heat.

Good Conductors

Bad conductors

Plastic Cup

Wooden Stick

Metal fork

Plastic straw

Frying pan

Metal Nail

Wooden Pencil

Plastic plate