

ENERGY, HEAT AND LIGHT

Part 1

1. WHAT IS THE HEAT SOURCE?

COAL

ELECTRICITY

NATURAL GAS

THE SUN



2. LISTEN AND COMPLETE THE TEXT ABOUT TEMPERATURE.



Celsius

Fahrenheit

temperature

thermometer

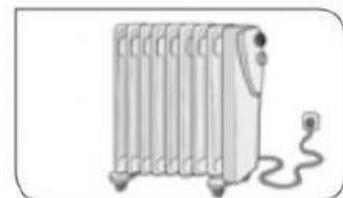
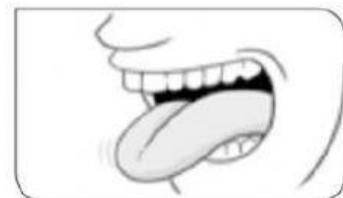
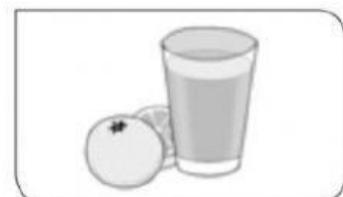
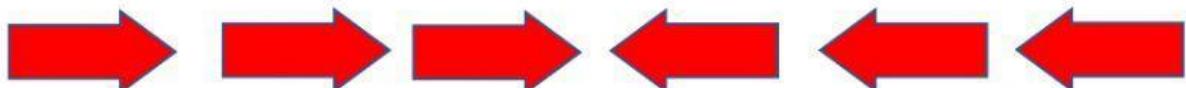
We measure _____, or how hot or cold something is, with a _____. Most countries measure temperature in degrees _____ ($^{\circ}\text{C}$). Some countries measure temperature in degrees _____ ($^{\circ}\text{F}$).

3. Read about heat and choose the correct answer.

- A. Heat is the transfer of **chemical / thermal** energy from one object to another.
- B. Thermal energy usually travels from an object with **lower /higher** temperature to an object with **lower / higher** temperature.
- C. **Thermal conductors / insulators** transmit heat very well.
- D. **Metals / Plastics** are good conductors.
- E. **Thermal insulators transmit / do not transmit** heat well.

F. Plastics, wood and air are **conductors / insulators**.

4. How does heat transfer from one object to another? Place the arrows to show how heat flows. (Use only 3 arrows)



5. Classify the material as **conductor or insulator**.

iron glass plastics gold wood water ceramics aluminium

CONDUCTORS	INSULATORS

6. Choose the correct answer.

A. When a rail heats up, it expands.

B. When we heat solid ice, it melts and becomes liquid water.

C. When we heat water up, its temperature rises.