

## THERMAL ENERGY

**1.- WRITE.** Decide if the following items are *CONDUCTORS* or *INSULATORS*:



**2.- DRAG AND DROP.** Which effect of thermal energy do these pictures show?

MELTING

EVAPORATION

CHEMICAL CHANGES

EXPANSION



**3.- JOIN.** Match the half sentences:

- When an object cools down •
- Thermal insulators are used •
- Liquids can change to gases •
- Metal cooking pots often have •
- Thermal conductors are materials •

- that transfer heat very easy.
- it is losing thermal energy.
- if we increase their thermal energy.
- to prevent the transfer of heat.
- plastic handles.

**4.- MULTIPLE CHOICE.** Select the correct answer:

a) How does thermal energy travel through object?

From a cooler object to a hotter one.

From a hotter object to a colder one.

b) How is thermal energy transferred?

By conduction, convection and radiation.

By conductors and insulators.

c) What materials are thermal conductors?

Metals such as aluminium, copper or steel.

Wooden objects such as cork or paper.

d) What are the effects of thermal energy?

Physical changes that can be reversible.

Melting, chemical changes, evaporation and expansion.

e) Melting occurs when ...

A solid changes into a gas.

A solid changes into a liquid.



**5.- WRITE.** Say if these images are examples of *CONDUCTION*, *CONVECTION* or *RADIATION*.

