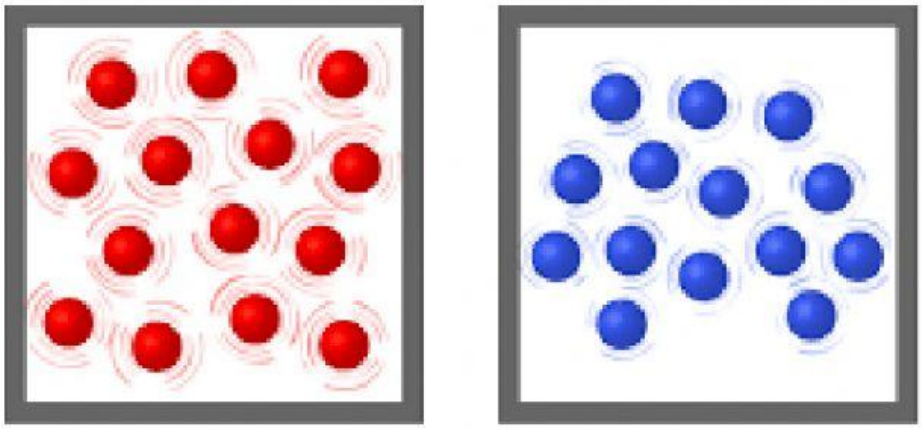
THERMAL ENERGY = HEAT ENERGY

Before watching the video, read the relevant information:

ENERGY: it has to do with the **movements of the particles** that make up matter.



Hot water

Cold water

If we look up close at the particles of something very **HOT** we would see them moving very **FAST**

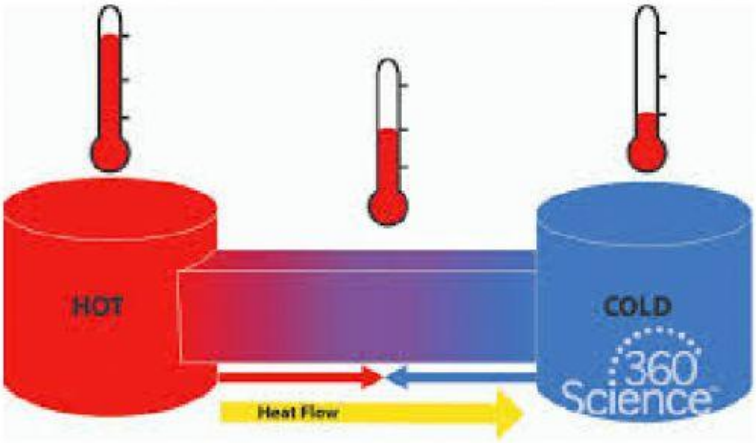
If the movement is very fast they have **MORE ENERGY**

If we look up close at the particles of something very **COLD** we would see them moving very **SLOWLY**

If the movement is very slow they have **LESS ENERGY**

LIVEWORKSHEETS

HEAT: is a form of energy that is being **transferred** from a substance at a higher temperature to another substance or substances at a lower temperature.



HEAT IS SOMETHING VERY USEFUL: NO LIFE WOULD BE POSSIBLE OUR PLANET WITHOUT THE LIGHT AND THE HEAT ENERGY FROM THE SUN

Sun makes possible plants to grow <— living things consume plants

LIVEWORKSHEETS

HEAT ENERGY - THERMAL ENERGY AT HOME

HEATERS: heat the air and warm up our homes

OVENS: transfer heat to a bowl or plate

TOASTERS

COFFEE MAKERS

A GAS STOVE

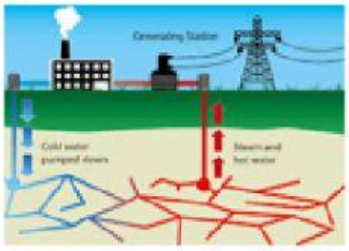
HOT TUB WATER

LIVEWORKSHEETS

OUR OWN BODY IS A SOURCE OF HEAT ENERGY

HEAT ENERGY CAN BE USED FOR:

- Keeping us warm in our homes
- Cooking food
- A hot bath to warm up our bodies
- Plants to make food for themselves
- Electricity (GEOTHERMAL ENERGY)



Watch the video

LIVEWORKSHEETS

LET´S SEE WHAT YOU LEARNT!!!!

1. If we look up close at the particles of something very **HOT** we would see them moving very _____.

2. If the movement is very fast they have MORE ENERGY / LESS ENERGY

3. If we look up close at the particles of something very _____ we would see them moving very **SLOWLY**

4. If the movement is very slow they have MORE ENERGY / LESS ENERGY

5. Heat energy always travels from COLDER / HOTTER substance to a COLDER / HOTTER substance.

6. Plants use light and heat energy from the _____ to grow and make food.

7. What sources of energy that we have at home appear in the video?
   h_____, o_____, t_____, c_____m_____, a g_____ s_____ and a h_____ t_____ w_____.

8. How can we prove our body is a source of heat energy? Holding fire/ice/ plants on our hands.

9. Heat energy can be used for:
   a.making clothes so that we are warm in winter
   b.keeping us warm and cooking food
   c.refresh ourselves holding some ice cubes

LIVEWORKSHEETS