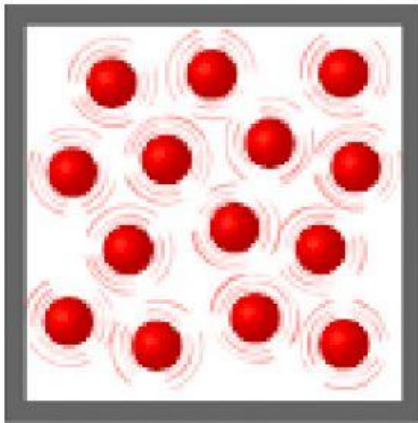


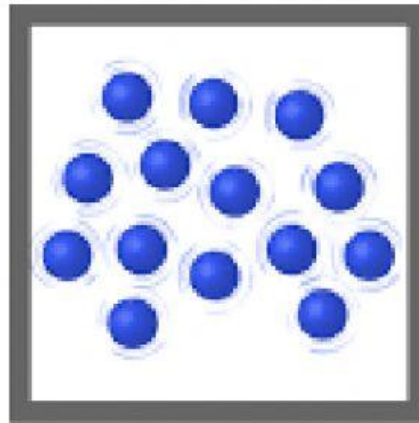
## THERMAL ENERGY = HEAT ENERGY

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

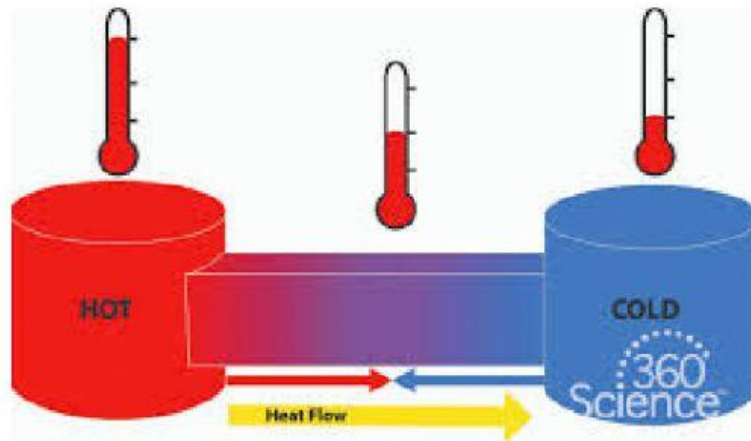
If we look up close at the particles of something very **HOT** we would see them moving very **FAST**

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**

**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

# 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

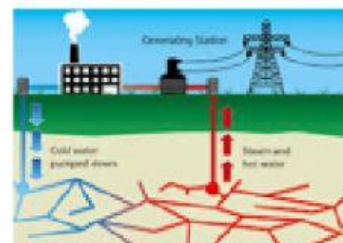


## OUR OWN BODY IS A SOURCE OF HEAT ENERGY



### 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**

## 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