

## Heat

1. Complete the descriptions of the types of heat transfer using the words in the box. You **can** use the words more than once!

---

solids	liquids	sun	move	separate
dense	energy	collide	sink	gases
rise	current	contact	fire	space
rises				temperature

---

### *Conduction*

This is the way heat transfers through \_\_\_\_\_. When the particles near the heat source heat up, they get more \_\_\_\_\_ and start to \_\_\_\_\_ more. They \_\_\_\_\_ with the other particles and pass energy to them. Then these particles start to move more and \_\_\_\_\_ with the other particles ... This process continues until all the particles have the same energy and the whole object is the same \_\_\_\_\_.

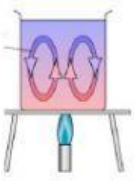
### *Convection*

This is the way heat transfers through \_\_\_\_\_ and \_\_\_\_\_. The particles near the heat source heat up and start to move more. They \_\_\_\_\_ more from the other particles, so this part becomes less \_\_\_\_\_. Because it is less dense, it \_\_\_\_\_. Cold particles move to fill the \_\_\_\_\_ that is created. Then they heat up and rise too. This produces a circular movement. The particles heat up and \_\_\_\_\_, cool down and \_\_\_\_\_, heat up and \_\_\_\_\_, cool down and \_\_\_\_\_. This is called a convection \_\_\_\_\_.

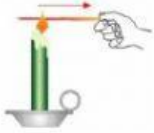
### *Radiation*

This is how heat transfers without physical \_\_\_\_\_. It is how the \_\_\_\_\_'s energy reaches us on Earth or how we feel the heat of a \_\_\_\_\_ without touching it for example.

2. Match the type of heat transfer to its name



Conduction



Convection



Radiation

3. Decide how the heat is being transferred in each image:

