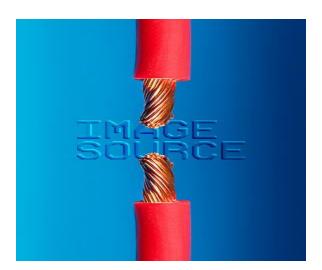
Conduction –

0



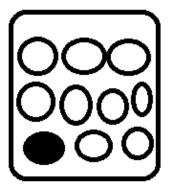
Conduction is heat transfer by Direct Contact.

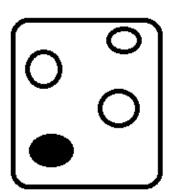
Duct tape (DUCT) Train conductor Conducting electricity

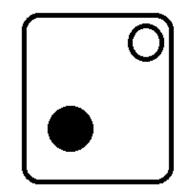


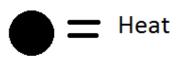


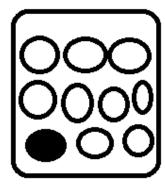




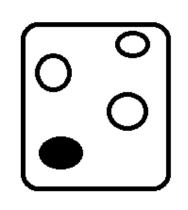




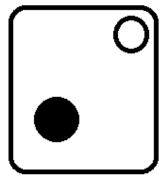




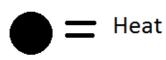
Solid

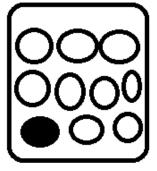


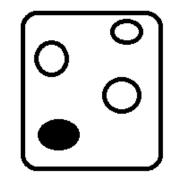
Liquid



Gas







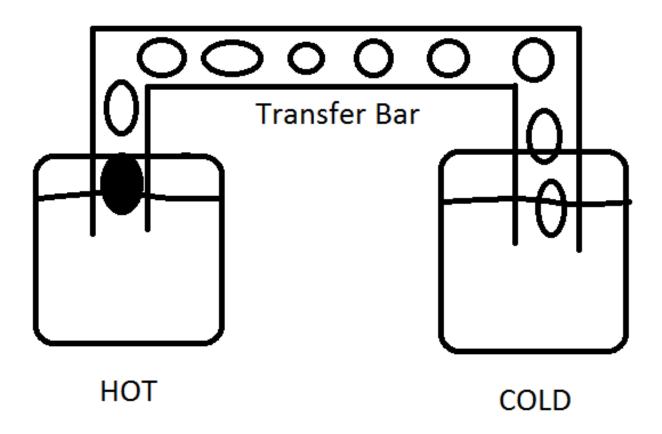
Liquid

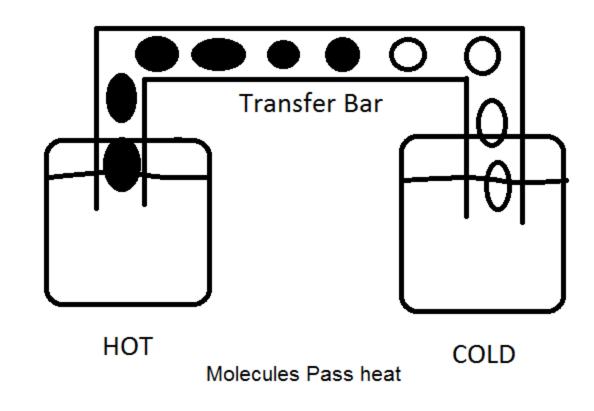
Gas

Solid Molecules close Easy to pass heat

Molecules spread Harder to pass heat

Molecules far apart Hardest to pass heat

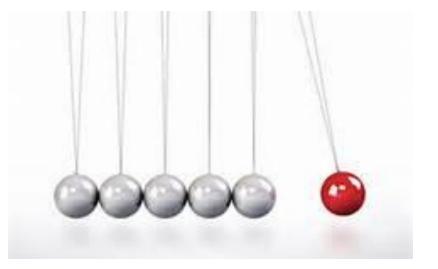




Heat travels from Hot to Cold







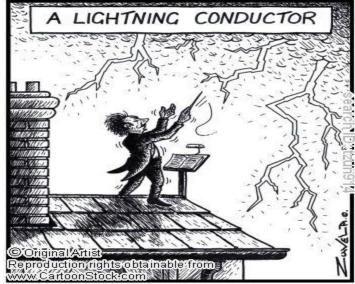


Why science teachers are not asked to monitor recess.

- How does conduction happen?
- Conduction happens when molecules pass heat to each other.
- What direction does the heat flow?
- Heat flows from hot to cold.
- More energy to less energy
- What state of matter will work best for conduction?
- Solids work best because the molecules are close together and can easily pass the heat.

- What do you call an object that conducts heat?
- Conductor is an object that will pass heat.
- Ex. Metal (metal spoons in soup, metal lightning rods)

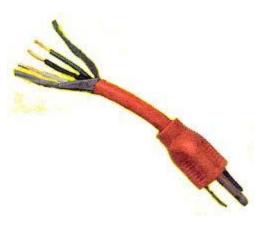








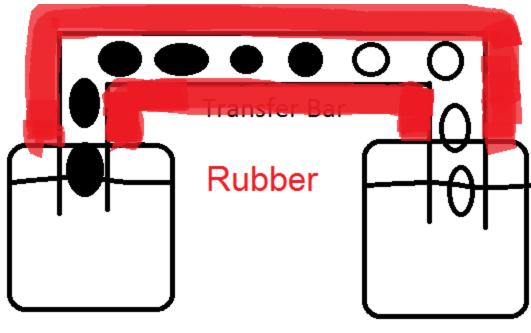
- What do you call an object that will stop heat transfer?
- Insulators stop heat transfer.
- Ex. Rubber (rubber around electric cords, house insulation)





What is a closed system?

- A closed system does not exchange matter with its surrounding.
- How can we make a closed system?
- Insulators create closed systems.



HOT Closed System COLD

Convection / Conduction (G)

- Define Convection.
- How does it work?
- Best in what state(s) of matter?
- 3 real world example.
- Define Conduction.
- How does it work?
- Best in what state of matter?
- 3 real world examples.
- How could we prevent heat loss from the bar?

Conduction (R)

- Define Conduction?
- How does it happen?
- Best in what state of matter? Why?
- Direction of Heat flow?
- Define Conductor (2 examples).
- Define Insulator (2 examples).
- How could we reduce heat loss by the bar?
- Draw and label a picture of conduction.