

Conductor - a material that allows energy in the form of heat to be transferred

- * Maximize thermal energy transfer
- * particles move around bumping into each other
- * examples → metals → many liquids

Insulator - a material that prevents heat from being transferred.

- * minimize thermal energy transfer
- * particles far apart from each other (gasses)
- * examples - empty space (vacuum), plastic bubble wrap, dry wood, wool sock

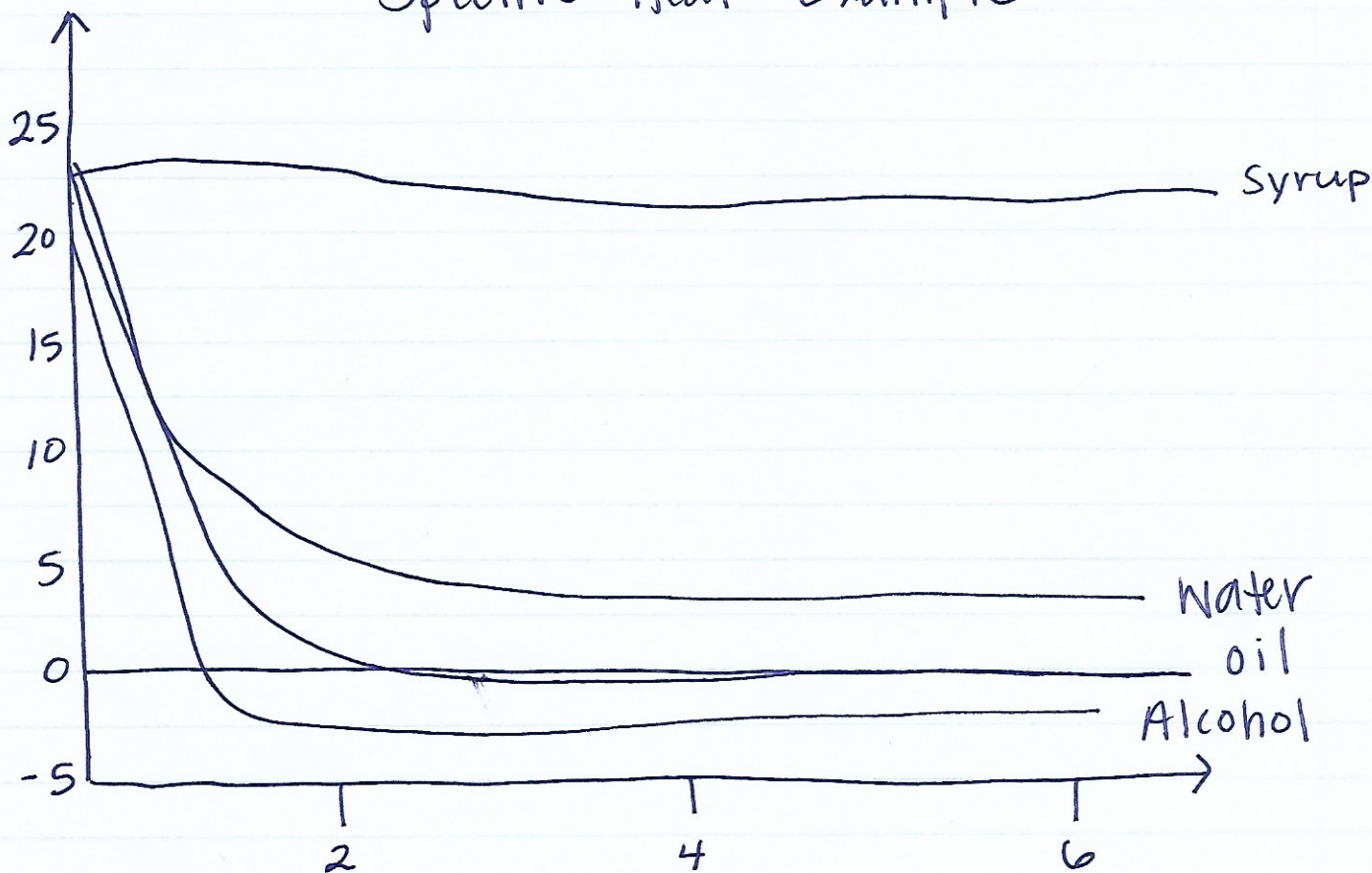
Specific Heat - the heat required to raise the temperature of 1g of a substance 1°C

- * unique for every substance

* If each substance is under the same conditions... then the smaller the temperature change the greater the specific heat of a substance

or... the greater the temperature change the smaller the specific heat of a substance

Specific Heat Example



→ Lowest Temperature Change = Corn Syrup

→ Highest Temperature Change = Rubbing Alcohol

→ Highest Specific Heat = Corn Syrup

→ Lowest Specific Heat = Rubbing Alcohol