

## 8<sup>th</sup> Grade Physical Science

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- Properties of Matter
  - characteristics of matter used to describe and/or identify types of matter
    - physical properties = can be observed or measured without changing the identity of the matter
      - observed – use of the senses ( looks like, smells like, feels like, etc...)
      - measurable – volume, mass, density, temperature, etc...
    - more physical properties:
      - thermal conductivity = the ability to transfer thermal (heat) energy from one area to another
      - state = the physical form of matter (solid, liquid, gas)
      - malleability = the ability to be pounded into thin sheets
      - ductility = the ability to be drawn or pulled into a wire
      - solubility = the ability to dissolve in another substance
      - density = mass per unit of volume ( no matter the size of the substance the density will always be the same)