

Physical Science
Study Guide
Unit 7 Test – Friday, May 6

Key Terms:

- Solubility
- Temperature
- Convection
- Saturated
- Heat
- Conduction
- Unsaturated
- Celsius
- Thermal Equilibrium
- Supersaturated
- Radiation
- Thermal Inequilibrium
- Conductor
- Insulator

Test Material by Subject:

Temperature vs. Heat

- Understand the difference between heat and temperature
- Be able to explain why liquids expand when they are heated and how this relates to thermometers
- Be able to compare the heat of two objects given relative temperature and mass (may be descriptions rather than numbers)

Solubility

- Be able to describe how a solution is made.
- Know that solubility is dependent on temperature and that most substances become more soluble at higher temperatures (there are exceptions – be able to ID these from a curve)
- Understand the difference between a saturated solution, unsaturated solution, and a supersaturated solution.
- Be able to read a solubility curve and relate it to saturation

Heat Transfer

- Be able to discuss differences in radiation, convection and conduction
- Be able to identify examples of radiation, convection and conduction
- Be able to describe what is happening in a substance at the particle level as the temperature is changed.
- Understand how a substance changes state at the particle level
- Be able to draw a temperature vs. time graph for water for a given temperature change, and be able to label the graph with changes of state/states/changes in energy.
- During a phase change, be able to describe the heat transfer and what it does to the particles

See “Essential Questions/Instructional Goals” File for the Unit on my website & Reference table for equations.