

Study Guide—Chapter 10 Lessons 1&2

50pt. Quiz 10/14

“paper dots” diagram...see p. 520 in textbook, notes, and/or diagram on my webpage

Is changing the state of matter a physical change? (yes)

When is water denser—solid ice, or liquid? (liquid...because ice floats)

Know your vocabulary! Be able to match and label diagram on p. 522

Be able to explain by using molecule motion, thermal expansion/contraction with a balloon.

Review notes for lesson 2 (on webpage) and be able to match different types of mixtures—for example: trail mix is a heterogeneous mixture, mayonnaise is a colloid, muddy water is a suspension. Be able to tell me why...parts visible to eye or microscopic? Settle or not?

Understand that a solution is a homogeneous mixture—it's the same everywhere even under a microscope. Solutes dissolve in solvents. Often the solvent is water. Heating a solvent improves dissolving, it improves solubility. Solutions of metals are called alloys.

Different physical properties of the parts of mixtures can help you separate them...use filters for example if the parts are different sizes, use a magnet if some parts are magnetic and others are not. Distillation is separation of 2 liquids with different boiling points.

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