

Physical Science
Study Guide
Test 6 – Wednesday, April 20

Key Terms:

- Matter
- Density
- Mass
- Physical Property
- Weight
- Boiling Point
- Volume
- Freezing Point

Test Material by Subject:

- Matter
 - Be able to define matter
 - Know about physical properties of matter, including boiling and freezing points
- Mass
 - Know what mass is
 - Understand the difference between mass and weight
 - Know what tools are used to measure mass
 - Be able to compare the masses of samples of two substances
 - Given volume and density, be able to calculate mass
 - Be able to calculate the cost of a substance given its density, volume, and cost/ gram.
- Volume
 - Know what volume is.
 - Given the dimensions of a cube/block, be able to calculate its volume.
 - Know how to find the volume of an irregularly shaped object.
 - Understand that the volume of an irregularly-shaped object is equal to the displacement of water
 - Given the difference in volumes of water from before and after an object was put in the water, be able to calculate volume.
 - Given mass and density, be able to calculate the volume of an object.
- Density
 - Understand what density is
 - Understand that density is a characteristic property
 - it can be used to identify substances because each substance has its own density – solids and liquids
 - be able to use this knowledge to create an experiment to compare the identities of two substances.
 - Know that the density of a gas depends on the size container/pressure it is in – it changes for the same substance.
 - Know how to calculate density.
 - Given mass and volume be able to calculate density
 - Given mass and the dimensions of a block, be able to calculate density
 - Know the density of water in g/cm^3
 - Be able to compare the densities of two substances given masses and volumes of their samples.
 - Understand how to find the density of an object from a volume vs. mass graph.
 - Know that steeper slopes = greater densities
 - Be able to compare the densities of two materials based on a volume vs. mass graph.
 - Based on whether objects will float or not, be able to compare their densities.