

## Study Guide

**Directions:** Review all **notes, labs, lab review questions, videos, quizzes, and reading assignments.** Understand definitions and concepts relating to the terms on this study guide.

Science notes are on the internet at:

[www.LakeviewJHS.net](http://www.LakeviewJHS.net)

- go to "Science" and find the notes under each topic

### Know How To:

Describe matter based on physical properties

Explain and define phase changes

Calculate density, mass, and volume with units

Explain buoyancy force

Determine mathematically whether an object will sink or float

Graph density and read density graphs (find density from a graph)

Find the volume of regular and irregular shaped objects

### Phases of Matter

solid

liquid

gas

plasma

heat energy

temperature

freezing point

melting point

boiling point

condensation

shape

-solid

-liquid

-gas

volume

-solid

-liquid

-gas

arrangement of particles

-solid

-liquid

-gas

movement of particles

-solid

-liquid

-gas

## Physical Properties

mass  
weight  
volume  
density  
buoyancy  
phase  
color  
size  
shape  
texture  
hardness  
luster  
malleability  
conductivity  
magnetism  
heterogeneous  
homogeneous  
specific gravity  
luminance  
synthetic  
viscosity  
newtonian fluid  
non-newtonian fluid

## Equipment

beaker  
graduated cylinder  
flask  
displacement (overflow) cup  
triple beam balance  
box spring scale  
rubber stopper  
ring stand  
clamp  
stir rod  
pipet  
petri dish  
test tube  
test tube brush  
test tube rack