

Test Date: \_\_\_\_\_

## 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:

Determine if two or more substances form a heterogeneous or homogeneous mixture

Describe types of heterogeneous and homogeneous mixtures

Explain why one solute is more soluble than another

Explain the difference between concentration and saturation

Describe properties of mixtures, elements, and compounds

Describe the make up of mixtures, elements, and compounds

Describe a method for separating, if possible, mixtures, elements, and compounds

Identify thirty six element names, symbols, and uses

Identify nine elements of life and how they relate to life

Explain how the elements of life combine to create the chemistry of life

### Compounds Used in Labs

sodium chloride (NaCl)

water (H<sub>2</sub>O)

sucrose (C<sub>12</sub>H<sub>22</sub>O<sub>11</sub>)

### Mixtures

mixture

heterogeneous mixture

suspension

colloid

homogeneous mixture

solution

alloy

solute

solvent

universal solvent

evaporation

diatomaceous earth

## Saturation

saturated solution  
super saturated solution  
solubility  
crystals

## Concentration

concentrated solution  
dilute solution  
saturated vs. 100% concentrated

## Elements & Compounds

pure substance  
atom  
element  
writing chemical symbols  
molecule  
compound  
properties of elements vs. compounds

## Elements and Chemistry of Life

CHNOPS, K, Ca, Na  
Large vs small molecules  
Carbohydrates  
Proteins  
Fats  
Calories  
Food Labels

## Equipment

filter  
screen  
funnel  
flask  
rubber stopper  
graduated cylinder  
triple beam balance  
stir rod  
pipet  
also, see equipment section on past tests