

Name _____



Date _____
(Key # 1 - 417656)

Matter & Chemistry Review

Complete the crossword puzzle.

ELECTRON
MELTINGPOINT
FOUR
PERIOD
EVAPORATION
DALTON
SOLUTION
VALENCE
ACID
CONCENTRATED
SUBSTANCE
VISCOSITY
EIGHT
THREE
HETEROGENEOUS
PH

DILUTE
REACTANT
GROUP
ATOMICMASS
COMPOUND
PRODUCT
ACIDIC
NEUTRALIZATION
STATES
CATALYST
HOMOGENEOUS
BASIC
SOLUTE
MELTING
BASE
SIX

MOVEMENT
RELEASES
CHEMICAL
ELEMENT
CONSERVATIONOFMASS
EQUAL
FREEZING
ENDOTHERMIC
BOILINGPOINT
TEMPERATURE
HG
NUCLEUS
MENDELEEV
SOLUBILITY
EXOTHERMIC
MIXTURE

Across

- 1 found outside of the nucleus in an atom, have a negative charge
- 3 substance that exists before a chemical reaction begins
- 5 reaction in which heat energy is absorbed
- 9 describes a solution that contains a large amount of solute per given amount of solvent
- 10 Column on the periodic table
- 11 Ice, liquid water, and water vapor are the three _____ of water
- 14 substances that produce hydroxide ions when they dissolve in water
- 15 The symbol for the element mercury is _____
- 16 measure of the average kinetic energy of a substance
- 18 The temperature at which ice changes into liquid water is called its _____ (2 words)
- 21 Heat is the _____ of thermal energy from a higher temperature to a lower temperature.
- 22 Row on the periodic table
- 24 combinations of substances that can be separated by physical processes
- 27 When a gas condenses to a liquid it _____ from its surroundings

- 28 Boron has this many neutrons
- 29 A solution with a pH of 13 is _____
- 31 matter that is made up of only one kind of atom
- 35 Weak tea is an example of a _____ solution
- 36 The ability to burn is an example of a _____ property
- 38 _____ developed a model called the atomic theory of matter.
- 45 Fruit salad is an example of a _____ mixture
- 46 the term used to describe how much solute dissolves in a given amount of solvent
- 47 Neon has this many valence electrons

Down

- 2 total mass is the same before and after a physical or chemical change (3 words)
- 4 contain hydrogen and produce hydronium ions when they dissolve in water
- 5 Puddles drying up in the Sun are examples of _____
- 6 If pure gold is classified as 24-karat gold, then 10-karat gold must be a(n) _____ mixture.
- 7 Created the first periodic table
- 8 Lithium has this many protons

- 12 The substance being dissolved to form a solution is the _____.
- 13 It is the sum of the proton & neutrons (2 words)
- 17 A solution with a pH of zero is _____
- 19 Reaction between an acid & a base
- 20 a measure of how acidic or basic solutions are
- 23 Matter that has the same composition and properties throughout is called a(n) _____
- 25 When a liquid changes to a solid
- 26 another name for a homogeneous mixture
- 30 temperature where some of a liquid begins to enter the gaseous state (2 words)
- 32 reaction in which heat energy is released
- 33 The freezing point of a substance is _____ to the melting point of the same substance
- 34 In an atom, contains the protons & neutrons
- 37 . The properties of magnesium oxide are different than the individual properties of magnesium and oxygen because magnesium oxide is a _____
- 39 Name for an electron in an atom's outermost shell
- 40 Carbon has this many valence electrons
- 41 substance that speeds up a chemical reaction
- 42 substance formed by a chemical reaction
- 43 a measure of a fluid's resistance to flow
- 44 When a solid changes to a liquid