

VOCABULARY

Set #1

1. Absolute zero
2. Accepted value
3. Accuracy
4. Celsius scale
5. Conversion factor
6. Density
7. Dimensional analysis
8. Experimental value
9. Gram
10. International system of units (SI)
11. Kelvin scale
12. Liter
13. Meter
14. Percent error
15. Precision
16. Qualitative measurement
17. Quantitative measurement
18. Scientific notation
19. Significant figure
20. Specific gravity
21. Temperature
22. Volume
23. Weight

Set #2

1. Biochemistry
2. Chemical property
3. Chemical reaction
4. Chemistry
5. Compound
6. Distillation
7. Element
8. Gas
9. Heterogeneous mixture
10. Homogenous mixture
11. Inorganic chemistry
12. Law of conservation of mass
13. Liquid
14. Mass
15. Matter
16. Organic chemistry
17. Phase
18. Physical change
19. Product
20. Reactant
21. Scientific method
22. Solid
23. Solution
24. Vapor

Set #3

1. Alkali metal
2. Alkaline earth metal
3. Atom
4. Atomic mass
5. Atomic mass unit
6. Atomic number
7. Atomic radius
8. Dalton's atomic theory
9. Electron
10. Electronegativity
11. Family
12. Group
13. Halogen
14. Inner transition metal
15. Ion
16. Ionization energy
17. Isotope
18. Mass number
19. Metal
20. Metalloid
21. Neutron
22. Noble gas
23. Nonmetal
24. Nucleus
25. Period
26. Periodic law
27. Periodic table
28. Proton
29. Transitional metal

Set #4

1. Amplitude
2. Atomic emission spectrum
3. Atomic orbital
4. Aufbau principle
5. De Broglie's equation
6. Electromagnetic radiation
7. Electron configuration
8. Energy level
9. Frequency
10. Ground state
11. Heisenberg uncertainty principle
12. Hertz (Hz)
13. Hund's rule
14. Pauli exclusion principle
15. Photoelectric effect
16. Photon
17. Planck's constant (h)
18. Quantum
19. Quantum mechanical model
20. Spectrum
21. Wavelength

Set #5

1. Bond dissociation energy
2. Bonding orbital
3. Coordinate covalent bond
4. Coordination number
5. Dipole
6. Dispersion force
7. Double covalent bond
8. Electron dot structure (Lewis structure)
9. Halide ion
10. Hybridization
11. Hydrogen bond
12. Ionic bond
13. Metallic bond
14. Network solid
15. Nonpolar covalent bond
16. Octet rule
17. Polar bond
18. Polar covalent bond
19. Polar molecule
20. Resonance structure
21. Single covalent bond
22. Structural formula
23. Triple covalent bond
24. Unshared pair
25. Van der Waals force
26. Valence electron
27. VSEPR theory

Set #6

1. Anion
2. Binary compound
3. Cation
4. Chemical formula
5. Formula unit
6. Ion
7. Ionic compound
8. Law of definite proportions
9. Law of multiple proportions
10. Molecular compound
11. Molecular formula
12. Molecule
13. Monatomic ion
14. Polyatomic ion
15. Ternary compound

Set #7

1. Avogadro's number
2. Empirical formula
3. Gram atomic mass (gam)
4. Gram formula mass (gfm)
5. Gram molecular mass (gmm)
6. Molar mass
7. Molar volume
8. Mole (mol)
9. Percent composition
10. Standard temperature and pressure (STP)

Set #8

1. Activity series of metals
2. Balanced equation
3. Catalyst
4. Chemical equation
5. Coefficient
6. Combination reaction
7. Combustion reaction
8. Complete ionic equation
9. Decomposition reaction
10. Double-replacement reaction
11. Net ionic equation
12. Precipitate
13. Single-replacement reaction
14. Skeleton equation
15. Solubility
16. Spectator ion

Set #9

1. Actual yield
2. Excess reagent
3. Limiting reagent
4. Percent yield
5. Stoichiometry
6. Theoretical yield

Set #10

1. Allotrope
2. Amorphous solid
3. Atmospheric pressure
4. Barometer
5. Boiling point
6. Crystal
7. Deposition
8. Evaporation
9. Gas pressure
10. Kinetic energy
11. Kinetic theory
12. Melting point
13. Normal boiling point
14. Kilopascal (kpa)
15. Phase diagram
16. Standard atmosphere (atm)
17. Sublimation
18. Triple point
19. Unit cell
20. Vaporization
21. Vapor pressure

Set #11

1. Calorie
2. Calorimeter
3. Chemical potential energy
4. Endothermic process
5. Energy
6. Enthalpy (H)
7. Exothermic process
8. Heat
9. Heat capacity
10. Heat of combustion
11. Hess's law of heat summation
12. Joule
13. Law of conservation of energy
14. Molar heat of fusion
15. Molar heat of solidification
16. Molar heat of solution
17. Molar heat of vaporization
18. Specific heat
19. Specific heat capacity
20. Standard heat of formation
21. System
22. Thermochemistry

Set #12

1. Avogadro's hypothesis
2. Boyle's Law
3. Charles' Law
4. Combined gas law
5. Compressibility
6. Dalton's law of partial pressures
7. Diffusion
8. Effusion
9. Gay-Lussac's law
10. Graham's law of effusion
11. Ideal gas constant (R)
12. Ideal gas law
13. Partial pressure

Set #13

1. Aqueous solution
2. Boiling-point elevation
3. Colligative property
4. Colloid
5. Concentrated solution
6. Concentration
7. Deliquescent
8. Desiccant
9. Dilute solution
10. Electrolyte
11. Emulsion
12. Freezing-point depression
13. Hygroscopic
14. Immiscible
15. Miscible
16. Molality
17. Molarity
18. Mole fraction
19. Saturated solution
20. Solubility
21. Solute
22. Solvation
23. Solvent
24. Supersaturated solution
25. Surface tension
26. Surfactant
27. Suspension
28. Tyndall effect
29. Unsaturated
30. Water of hydration

Set #14

1. Acid
2. Amphoteric
3. Base
4. Conjugate acid-base pair
5. Chemical equilibrium
6. Diprotic
7. Equilibrium constant
8. Hydronium ion
9. Hydroxide ion
10. Ion-product constant for water
11. Le Chatlier's principle
12. Lewis acid
13. Lewis base
14. Monoprotic acid
15. Neutralization reaction
16. Neutral solution
17. pH
18. Salt
19. Self-ionization
20. Strong acid
21. Strong base
22. Triprotic
23. Weak acid
24. Weak base

Set #15

1. Addition reaction
2. Alcohol
3. Aldehyde
4. Aliphatic compound
5. Alkane
6. Alkene
7. Alkyl group
8. Alkyne
9. Aromatic compound
10. Carbonyl group
11. Carboxyl group
12. Carboxylic acid
13. Cis-configuration
14. Condensed structural formula
15. Cyclic hydrocarbon
16. Dehydration reaction
17. Ester
18. Ether
19. Fatty acid
20. Fermentation
21. Functional group
22. Geometric isomer
23. Halide
24. Homologous series
25. Hydration reaction
26. Hydrocarbons
27. Hydrogenation reaction
28. Hydroxyl group
29. Ketone
30. Polymer