

Chemistry Study Guide

Name:

Date:

Block:

Create a study guide that includes the major vocabulary and concepts you learn in this unit. Include **definitions**, **examples**, and/or **relevant diagrams**. Your study guide can be a rewriting of your notes, a series of questions/answers, a brochure, a mind map showing the connections between concepts, or any other way you can think of. You can create your study guide on a regular sized piece of paper, a large piece of poster paper, or cue cards

Chemistry I: Matter, Pure Substances, Mixture, and Properties

Vocabulary	Concepts
<input type="checkbox"/> Matter <input type="checkbox"/> Pure substance <input type="checkbox"/> Mixture <input type="checkbox"/> Homogenous mixture <input type="checkbox"/> Heterogenous mixture <input type="checkbox"/> Element <input type="checkbox"/> Compound <input type="checkbox"/> Physical properties <input type="checkbox"/> Chemical properties <input type="checkbox"/> Malleability <input type="checkbox"/> Texture <input type="checkbox"/> Viscosity <input type="checkbox"/> Conductivity <input type="checkbox"/> State of matter <input type="checkbox"/> Melting point <input type="checkbox"/> Boiling point <input type="checkbox"/> Solubility <input type="checkbox"/> Ductility <input type="checkbox"/> Combustibility	<input type="checkbox"/> Classify examples as element, compound, or mixture <input type="checkbox"/> Physical vs Chemical properties <input type="checkbox"/> Physical vs Chemical changes

Chemistry II: Elements, Periodic Table, and Properties of Elements

Vocabulary	Concepts
<input type="checkbox"/> Elements <input type="checkbox"/> Chemical name <input type="checkbox"/> Chemical symbol <input type="checkbox"/> Atomic number <input type="checkbox"/> Atomic mass <input type="checkbox"/> Proton <input type="checkbox"/> Neutron <input type="checkbox"/> Electron <input type="checkbox"/> Metal <input type="checkbox"/> Non-metal <input type="checkbox"/> Metalloid/Semi-metal <input type="checkbox"/> Group/Family <input type="checkbox"/> Period	<input type="checkbox"/> Dmitri Mendeleev and his periodic table <input type="checkbox"/> Modern Periodic Table <input type="checkbox"/> How can we find protons, neutrons, and electrons for individual elements? <input type="checkbox"/> Groups (Families) vs Periods <input type="checkbox"/> Properties of Metals, Metalloids, and Non-Metals <input type="checkbox"/> Properties of Families 1, 2, 17, and 18

Chemistry III: Bohr Models and Ions

Vocabulary	Concepts
<ul style="list-style-type: none"><input type="checkbox"/> Bohr Model<input type="checkbox"/> Valence electron<input type="checkbox"/> Valence shell<input type="checkbox"/> Atom<input type="checkbox"/> Ion<input type="checkbox"/> Cation<input type="checkbox"/> Anion	<ul style="list-style-type: none"><input type="checkbox"/> How do we find the number of protons, neutrons, and electrons in atoms?<input type="checkbox"/> How do we find the number of protons, neutrons, and electrons in ions?<input type="checkbox"/> How do we draw Bohr models from atoms?<input type="checkbox"/> How do we draw Bohr models from ions?

Chemistry IV: Ionic and Covalent Compounds

Vocabulary	Concepts
<ul style="list-style-type: none"><input type="checkbox"/> Ionic compound<input type="checkbox"/> Lattice<input type="checkbox"/> Brittle<input type="checkbox"/> Conductor<input type="checkbox"/> Covalent compound<input type="checkbox"/> Molecule<input type="checkbox"/> Diatomic molecule	<ul style="list-style-type: none"><input type="checkbox"/> Ionic Compounds<ul style="list-style-type: none">○ How do they form?○ What are the properties of ionic compounds?○ How do we draw Bohr models for ionic compounds?<input type="checkbox"/> Covalent Compounds<ul style="list-style-type: none">○ How do they form?○ What are the properties of covalent compounds?○ How do we draw Bohr models for covalent compounds?

Chemistry V: Naming Ionic and Covalent Compounds

Vocabulary	Concepts
<ul style="list-style-type: none"><input type="checkbox"/> Chemical formula<input type="checkbox"/> Subscript<input type="checkbox"/> Prefix<input type="checkbox"/> Multivalent metal<input type="checkbox"/> Polyatomic ion	<ul style="list-style-type: none"><input type="checkbox"/> Naming ionic compounds<ul style="list-style-type: none">○ How do we go from a formula to a name?○ How do we go from a name to a formula?○ What are subscripts and what do they indicate?○ What is a multivalent metal?○ How do we name/write formulas for multivalent metals in an ionic compound?○ What is a polyatomic ion?○ How do we name/write formulas for compounds containing polyatomic ions?<input type="checkbox"/> Naming covalent compounds<ul style="list-style-type: none">○ How do we go from a formula to a name?○ How do we go from a name to a formula?