

Atomic Theory 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

Atomic Theory I: Matter

Vocabulary	Concepts
<input type="checkbox"/> Matter <input type="checkbox"/> Volume <input type="checkbox"/> Mass <input type="checkbox"/> Solid <input type="checkbox"/> Liquid <input type="checkbox"/> Gas <input type="checkbox"/> Kinetic energy	<input type="checkbox"/> Kinetic Molecular Theory <input type="checkbox"/> Is the mass, volume, and shape for each state fixed or not fixed? <input type="checkbox"/> What is the behavior of particles in solids, liquids, and gases? <input type="checkbox"/> Particle Model of Matter

Atomic Theory II: Changes in State

Vocabulary	Concepts
<input type="checkbox"/> Thermal expansion <input type="checkbox"/> Thermal contraction <input type="checkbox"/> Condensation <input type="checkbox"/> Deposition <input type="checkbox"/> Evaporation <input type="checkbox"/> Melting <input type="checkbox"/> Solidification <input type="checkbox"/> Sublimation <input type="checkbox"/> Melting point <input type="checkbox"/> Boiling point	<input type="checkbox"/> What happens to particles as kinetic energy is added or removed? <input type="checkbox"/> Changes in state

Atomic Theory III: Classifying Matter

Vocabulary	Concepts
<input type="checkbox"/> Elements <input type="checkbox"/> Compounds <input type="checkbox"/> Mixtures <input type="checkbox"/> Pure substance <input type="checkbox"/> Heterogeneous <input type="checkbox"/> Homogenous <input type="checkbox"/> Atomic number <input type="checkbox"/> Atomic mass <input type="checkbox"/> Atomic symbol	<input type="checkbox"/> Classifying matter <input type="checkbox"/> Elements <input type="checkbox"/> Compounds <input type="checkbox"/> Mixtures <input type="checkbox"/> Elements of the periodic table

Atomic Theory IV: Subatomic Particles

Vocabulary	Concepts
<ul style="list-style-type: none"><input type="checkbox"/> Proton<input type="checkbox"/> Electron<input type="checkbox"/> Neutron<input type="checkbox"/> Charges of subatomic particles<input type="checkbox"/> Atomic mass unit	<ul style="list-style-type: none"><input type="checkbox"/> Identify the number of subatomic particles for a given element<input type="checkbox"/> Where are protons, neutrons, and electrons located in an atom?

Atomic Theory V: Periodic Table

Vocabulary	Concepts
<ul style="list-style-type: none"><input type="checkbox"/> Periodic table<input type="checkbox"/> Period<input type="checkbox"/> Group/family<input type="checkbox"/> Alkali Metals<input type="checkbox"/> Alkaline Earth Metals<input type="checkbox"/> Transition metals<input type="checkbox"/> Halogens<input type="checkbox"/> Noble gases	<ul style="list-style-type: none"><input type="checkbox"/> Dmitri Mendeleev's contributions to the periodic table<input type="checkbox"/> What are the characteristics of particular families on the Periodic table? (Group 1, 2, 17, and 18)

Atomic Theory VI: Bohr Models

Vocabulary	Concepts
<ul style="list-style-type: none"><input type="checkbox"/> Bohr model<input type="checkbox"/> Electron shell	<ul style="list-style-type: none"><input type="checkbox"/> How do you draw a Bohr model for a given element?<input type="checkbox"/> How many electrons can each electron shell hold?