

# CHEMISTRY PLANNER

## Science

Lesson Plan #	Std	OBJECTIVE	QTR 1	QTR 2	QTR 3	QTR 4
Lesson Plan #	<b>S1</b>	<b>Science as Inquiry:</b> The student will develop the abilities necessary to do <i>scientific inquiry</i> and develop an understanding of scientific inquiry.	QTR 1	QTR 2	QTR 3	QTR 4
<b>Benchmark 1</b>		<b>The student will demonstrate abilities necessary to do <i>scientific inquiry</i>.</b>				
1	1.1.1	Design and perform investigations using math and technology, data collection and analysis, and report results.				
Lesson Plan #	<b>S2a</b>	<b>Chemistry.</b> Students will develop an understanding of the structure of atoms, compounds, chemical reactions, and the interactions of energy and matter..	QTR 1	QTR 2	QTR 3	QTR 4
<b>Benchmark 1</b>		<b>The student will understand the structure of the atom.</b>				
2	2a.1.1	Diagrams the structure of atoms and identifies charges of subatomic particles.				
3	2a.1.2	Defines isotopes and radioactivity and describes the uses of each.				
<b>Benchmark 2</b>		<b>The student will understand the states and properties of matter</b>				
4	2a.2.1	Kinetic and potential energy determines the states of matter.				
5	2a.2.2	The periodic table organizes the elements by trends.				
6	2a.2.3	Compare and contrast covalent and ionic bonds between valence electrons.				
<b>Benchmark 3</b>		<b>Gain a basic concept of chemical reactions.</b>				
7	2a.3.1	Identify evidence of reactions.				
8	2a.3.2	Identify types of reactions.				
Lesson Plan #	<b>S2b</b>	<b>Physics:</b> The student will develop an understanding of the structure of atoms, compounds, chemical reactions, and the interactions of energy and matter.	QTR 1	QTR 2	QTR 3	QTR 4
<b>Benchmark 2</b>		<b>The student will understand the conservation of mass and energy, and the First &amp; Second Laws of Thermodynamics.</b>				
9	2b.2.1	Matter has energy.				
10	2b.2.2	Conservation of energy.				
11	2b.2.3	Energy flows from hot to cold.				
<b>Benchmark 3</b>		<b>The student will understand the nature of the fundamental interactions of matter and energy.</b>				
12	2b.3.1	Attraction/repulsion properties of atoms.				
13	2b.3.3	Electromagnetic spectrum.				
Lesson Plan #	<b>S5</b>	<b>Science &amp; Technology.</b> Students will develop understandings about the relationship between science and technology.	QTR 1	QTR 2	QTR 3	QTR 4
<b>Benchmark 1</b>		<b>The student will develop an understanding that technology is applied science.</b>				
14	5.1.1	Technology is the application of science for functional purposes.				
15	5.1.2	Creativity and imagination, broad knowledge base.				
16	5.1.3	Science advances technology.				

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Lesson Plan #	<b>S6</b>	<u>Science in Personal &amp; Environmental Perspectives.</u> Students will develop an understanding of personal and community health, population growth, natural resources, environmental quality, natural and human-induced hazards, and science and technology in local, national, and global settings..	QTR 1	QTR 2	QTR 3	QTR 4
<b>Benchmark 1</b>		<b>The student will develop an understanding of the overall functioning of human systems and their interaction with the environment in order to understand specific mechanisms and processes related to health issues.</b>				
17	6.1.1	Hazards and accidents can be avoided through safety.				
18	6.1.2	Accidents can be prevented, controlled, or cured.				
19	6.1.3	Decisions for health and fitness.				
20	6.1.4	Eating patterns affect emotional and physical well-being.				
<b>Benchmark 3</b>		<b>The student will understand that human populations use natural resources and influence environmental quality.</b>				
21	6.3.1	Natural resources sustain populations				
22	6.3.2	Earth has finite resources.				
<b>Benchmark 4</b>		<b>The student will understand the effect of natural and human-influenced hazards.</b>				
23	6.4.1	Natural processes are hazardous to humans.				
<b>Benchmark 5</b>		<b>The student will develop an understanding of the relationship between science, technology, and society.</b>				
24	6.5.1	Social issues influence science and technology.				
Lesson Plan #	<b>S7</b>	<u>History &amp; Nature of Science.</u> Students will develop understanding of science as a human endeavor, the nature of scientific knowledge, and historical perspectives.	QTR 1	QTR 2	QTR 3	QTR 4
<b>Benchmark 1</b>		<b>The student will develop an understanding that science is a human endeavor that uses models to describe and explain the physical universe.</b>				
25	7.1.2	Peer review and replication				
26	7.1.5	Issues involve morals, ethics, values or spiritual beliefs.				
<b>Benchmark 2</b>		<b>The student will develop an understanding of the nature of scientific knowledge.</b>				
27	7.2.1	Science explains the natural world.				
28	7.2.2	Data observation is the first step to knowledge.				
29	7.2.3	Scientific method.				
30	7.2.4	Evidence supports a hypothesis.				
<b>Benchmark 3</b>		<b>The student will understand science from historical perspectives.</b>				
31	7.3.1	Significant contributions of scientists.				