

## 8th Grade Science CURRICULUM MAP 2022-23

<b>Dates</b> (months & days) These dates are estimates only and include a cushion at the end of the year	<b>Content</b> What topics will be taught and learned? What is the essential vocabulary for the unit? What do students need to know?		<b>Skills</b> What do students have to be able to do related to the content? (These can be written as student-friendly targets—"I can," statements)	<b>Essential Questions</b> What are the fundamental, enduring questions that will guide study and instruction?	<b>Standards/ Benchmarks</b> What benchmarks will be achieved through this topic?	<b>What Instructional Strategies and Activities</b> are used to develop the skills and knowledge? (Can be for either teacher or student)	<b>Resources</b> What materials, texts, videos, internet, software, or human resources support instruction?	<b>Assessment</b> What evidence (products and/or performances/ will be collected to establish that the Content and Skills have been learned?
	<b>Topic</b>	<b>Vocabulary</b>						
Quarter 1 8/10-10/7	Scientific inquiry	Fact. Opinion Critical Reasoning Scientific Method Observation Inference Prediction Variables Experimental Design	<ul style="list-style-type: none"> <li>● Getting to Know You</li> <li>● Fact Vs. Opinion</li> <li>● Critical Reasoning</li> <li>● Scientific Method</li> <li>● Variables</li> <li>● Experimental Design</li> <li>● NOS 1, 2, 3</li> </ul>	What are some steps used during scientific inquiry? Why did scientists create the International System of Units? Why are evaluation and testing important in the design process?	6-8 LST 1.1, 1.2 6-8 LST 2.1, 2.2, 2.3 6-8 LST. 3.1, 3.2, 3.3 6-8 LST 4.1, 4.2	Whole class instruction, speaking and listening, viewing, Class discussion, Writing prompts, Quizzes, Kahoot	Textbook, BrainPop, NewsELA, Vocabulary Practice, Content Practice, You Tube, Ed Puzzle, Kahoot, Kami	Textbook resources, Textbook Assessment Questions, BrainPop Quizzes, NewsELA Quizzes, & Teacher-made quizzes and tests
Quarter 2 10/10-1/3	Earth science	Weather, air pressure, climate, specific heat, evaporation, condensation,	<ul style="list-style-type: none"> <li>● Weather</li> <li>● Climate</li> <li>● Earth's Water</li> <li>● Environmental Impacts</li> </ul>	How do scientists describe and predict weather? What is climate and how does it impact life on Earth?	6-8 LST 1.1, 1.2 6-8 LST 2.1, 2.2, 2.3 6-8 LST. 3.1, 3.2, 3.3 6-8 LST 4.1, 4.2 8. ESS.1,2,3	Whole class instruction, speaking and listening, viewing, Class discussion, Writing prompts, Quizzes, Kahoot	Textbook, BrainPop, NewsELA, Vocabulary Practice, Content Practice, You Tube, Ed Puzzle, Kahoot, Kami	Textbook resources, Textbook Assessment Questions, BrainPop Quizzes, NewsELA Quizzes, & Teacher-

		population, carrying capacity		What role does water play on Earth? How do human activities impact the environment?				made quizzes and tests
Quarter 1/5-3/10	Life Science	Habitat, fertilization, heredity, dominant and recessive traits, fossil record, mold, fission	<ul style="list-style-type: none"> <li>• Classifying Living Things</li> <li>• Reproduction of Organisms</li> <li>• Genetics</li> <li>• Fossil Evidence of Evolution</li> <li>• Bacteria and Viruses</li> </ul>	<p>How is the classification of living things related to the structure of their cells? Why do living things reproduce? How are traits passed from parents to offspring? How do species adapt to changing environments over time? What are bacteria and Viruses and why are they important?</p>	<p>6-8 LST 1.1, 1.2 6-8 LST 2.1, 2.2, 2.3 6-8 LST. 3.1, 3.2, 3.3 6-8 LST 4.1, 4.2 8.LS.1,2,3,4,5,6,7,8,9,10,11</p>	<p>Whole class instruction, speaking and listening, viewing, Class discussion, Writing prompts, Quizzes, Kahoot</p>	<p>Textbook, BrainPop, NewsELA, Vocabulary Practice, Content Practice, You Tube, Ed Puzzle, Kahoot, Kami</p>	<p>Textbook resources, Textbook Assessment Questions, BrainPop Quizzes, NewsELA Quizzes, &amp; Teacher-made quizzes and tests</p>

<p>Quarter 4 3/28-5/26</p>	<p>Physical Science</p>	<p>Matter, atoms, electron, proton, periodic table, chemical bond, chemical reaction</p>	<ul style="list-style-type: none"> <li>• Foundations of Chemistry</li> <li>• Understanding the atom</li> <li>• Periodic Table</li> <li>• Elements and Chemical Bonds</li> <li>• Chemical Reactions and equations</li> </ul>	<p>What is matter and how does it change? What are atoms and what are they made of? How is the periodic table used to classify and provide information about all known elements? How do elements join together to form chemical compounds? What happens to atoms and energy during a chemical reaction?</p>	<p>6-8 LST 1.1, 1.2 6-8 LST 2.1, 2.2, 2.3 6-8 LST. 3.1, 3.2, 3.3 6-8 LST 4.1, 4.2 8.PS.1, 2, 3, 4, 5, 6, 7</p>	<p>Whole class instruction, speaking and listening, viewing, Class discussion, Writing prompts, Quizzes, Kahoot</p>	<p>Textbook, BrainPop, NewsELA, Vocabulary Practice, Content Practice, You Tube, Ed Puzzle, Kahoot, Kami</p>	<p>Textbook resources, Textbook Assessment Questions, BrainPop Quizzes, NewsELA Quizzes, &amp; Teacher-made quizzes and tests</p>
<p><b>Dates</b> (months &amp; days) These dates are estimates only and include a cushion at the end of the year</p>	<p><b>Unit/Content</b> What topics will be taught and learned? What is the essential vocabulary for the unit? What do students need to know?</p> <p><b>Topic</b>                      <b>Vocabulary</b></p>	<p><b>Skills</b> What do students have to be able to do related to the content? (These can be written as student-friendly targets—"I can," statements</p>	<p><b>Essential Questions</b> What are the fundamental, enduring questions that will guide study and instruction?</p>	<p><b>Standards/ Benchmarks</b> What benchmarks will be achieved through this topic?</p>	<p><b>What Instructional Strategies and Activities</b> are used to develop the skills and knowledge? (Can be for either teacher or student)</p>	<p><b>Resources</b> What materials, texts, videos, internet, software, or human resources support instruction?</p>	<p><b>Assessment</b> What evidence (products and/or performances/ will be collected to establish that the Content and Skills have been learned?</p>	
