

## Grade 6 Science New Jersey Student Learning Standards Pacing Guide

*Established 2016-2017 Revised 2018-2019 Revised 2019-2020 Revised 2020-2021 Revised 2022-2023*

<p><b>Marking Period 1</b> 45 Days</p> <p><b>Engineering and Science (Module A)</b> <i>MS-ETS1-1-4</i></p> <ul style="list-style-type: none"> <li>● <b>Unit 1: Introduction to Engineering and Science</b> (15 days) <ul style="list-style-type: none"> <li>○ Lab Safety and Science Skills</li> <li>○ Engineering Science &amp; Society</li> <li>○ System &amp; System Models</li> <li>○ Engineering Design Process</li> </ul> </li> <li>● <b>Unit 2: The Practice of Engineering</b> (20 days) <ul style="list-style-type: none"> <li>○ Defining Engineering Problems</li> <li>○ Developing and Testing Solutions</li> <li>○ Optimizing Solutions</li> </ul> </li> </ul> <p><b>STEM Showcase</b></p> <ul style="list-style-type: none"> <li>○ <b>(Science Fair preparation)</b> (10 days) <ul style="list-style-type: none"> <li>■ Includes Scientific Method</li> <li>■ Scientific Inquiry Process</li> <li>■ Independent and Dependent Variables</li> </ul> </li> </ul>	<p><b>Marking Period 3</b> 45 Days</p> <p><b>Earth's Water &amp; Atmosphere (Module E)</b> <i>MS-ESS2 1-6 &amp; MS-ETS1-1-4</i></p> <ul style="list-style-type: none"> <li>● <b>Unit 1: Circulation of Earth's Air &amp; Water</b> (15 days) <ul style="list-style-type: none"> <li>○ Circulation in Earth's Atmosphere</li> <li>○ Circulation in Earth's Oceans</li> <li>○ The Water Cycle</li> </ul> </li> <li>● <b>Unit 2: Weather &amp; Climate</b> (15 days) <ul style="list-style-type: none"> <li>○ Influences on Weather</li> <li>○ Weather Prediction</li> <li>○ Influences on Climate</li> </ul> </li> </ul> <p><b>Earth and Human Activity (Module G)</b> <i>MS-ESS3 1-5 &amp; MS-ETS1-1-4</i></p> <ul style="list-style-type: none"> <li>● <b>Unit 1: Earth's Natural Hazards</b> (15 days) <ul style="list-style-type: none"> <li>○ Natural Hazards</li> <li>○ Natural Hazard Predictions</li> <li>○ Reducing the Effects of Natural Hazards</li> </ul> </li> </ul>
<p><b>Marking Period 2</b> 45 Days</p> <p><b>Space Science (Module H)</b> <i>MS-ESS1 1-3 &amp; MS-ETS1-1-4</i></p> <ul style="list-style-type: none"> <li>● STEM Showcase (Science Fair presentations) (5 days)</li> <li>● <b>Unit 1: Patterns in the Solar System</b> (20 days) <ul style="list-style-type: none"> <li>○ Earth-Moon-Sun System</li> <li>○ Seasons</li> </ul> </li> <li>● <b>Unit 2 The Solar System and Universe</b> (20 days) <ul style="list-style-type: none"> <li>○ Formation of the Solar System</li> <li>○ Earth &amp; the Solar System</li> <li>○ Earth's place in the Universe</li> <li>○ Gravity in the Universe</li> </ul> </li> </ul>	<p><b>Marking Period 4</b> 45 Days</p> <p><b>Earth and Human Activity (Module G continued)</b> <i>MS-ESS3 1-5 &amp; MS-ETS1-1-4</i></p> <ul style="list-style-type: none"> <li>● <b>Unit 2: Resources in Earth Systems</b> (15 days) <ul style="list-style-type: none"> <li>○ Natural Resources</li> <li>○ Distribution of natural resources</li> </ul> </li> <li>● <b>Unit 3: Using Resources</b> (15 days) <ul style="list-style-type: none"> <li>○ Human Population and Resource Use</li> <li>○ Resource Use and Earth's Systems</li> </ul> </li> <li>● <b>Unit 4: Human Impact on Earth Systems</b> (15 days) <ul style="list-style-type: none"> <li>○ Human Impacts on the Environment</li> <li>○ Engineer It: Reducing Human Impacts on the Environment</li> <li>○ Climate Change</li> </ul> </li> </ul>