

## Science Grade 8 Scope & Sequence

Days	Unit	Standard(s)/Outcome(s)	Essential/Guiding Questions
20	Building a Manmade Mountain <ul style="list-style-type: none"> <li>● Climate and Natural Fluctuations</li> <li>● Latitude</li> <li>● Elevation</li> <li>● Rain Shadow Effect</li> <li>● Proximity of Large Bodies of Water</li> </ul>	MS-ESS2-4 MS-ESS2-6 MS-ETS1-3	<i>Could a manmade structure change the climate?</i>
30	Greenland is Melting <ul style="list-style-type: none"> <li>● Heat Transfer</li> <li>● Coriolis Effect</li> <li>● Global Winds</li> <li>● Ocean Currents</li> <li>● Albedo</li> <li>● Global Climate Change/Human Population</li> <li>● Natural Resources (Renewable &amp; Non-Renewable)</li> <li>● Distribution of Resources</li> <li>● Greenhouse Gases/Ocean Acidification</li> <li>● Human Impact on Earth</li> </ul>	MS-ESS2-4 MS-ESS2-6 MS-ESS3-1 MS-ESS3-3 MS-ESS3-4 MS-ESS3-5	<i>Why is causing Greenland to melt?</i>
20	Severe Weather <ul style="list-style-type: none"> <li>● Air Pressure</li> <li>● Local Winds</li> </ul>	MS-ESS2-4 MS-ESS2-5 MS-ESS2-6	<i>Why do we see severe weather events only in certain areas?</i>

	<ul style="list-style-type: none"> <li>● Water Cycle</li> <li>● Air Masses</li> <li>● Fronts</li> <li>● Storms</li> <li>● Severe Weather Patterns</li> </ul>	MS-ESS3-2	
25	<p>The Glossopteris Fossils</p> <ul style="list-style-type: none"> <li>● Fossils</li> <li>● Relative Age</li> <li>● Geologic Time Scale</li> <li>● Evidence in Geological Events</li> <li>● Continental Drift</li> <li>● Seafloor Spreading</li> </ul>	MS-ESS1-4 MS-ESS2-3	<i>What explains why the same fossils were found on different continents?</i>
25	<p>The Yellowstone Supervolcano</p> <ul style="list-style-type: none"> <li>● Seafloor Spreading</li> <li>● Earth's Interior Processes</li> <li>● Plate Tectonics</li> <li>● Earthquakes</li> <li>● Volcanoes</li> <li>● Faults, Folds and Fracture Zones</li> </ul>	MS-ESS2-2 MS-ESS3-2 MS-ETS1-2 MS-ETS1-3	<i>Why could the Yellowstone supervolcano be huge?</i>
15	<p>Japan Tsunami 2011</p> <ul style="list-style-type: none"> <li>● Natural Hazards</li> <li>● Forecasting Risk</li> <li>● Natural Hazards Solutions</li> </ul>	MS-ESS2-2 MS-ESS3-2	<i>Where do natural hazards happen?</i>  <i>How do we prepare for them?</i>
10	<p>Stream Structure</p> <ul style="list-style-type: none"> <li>● Agents of Weathering</li> <li>● Agents of Erosion</li> <li>● Stream Erosion</li> </ul>	MS-ESS2-1 MS-ESS2-2	<i>How do weathering, erosion, and deposition affect the shape and structure of a stream?</i>

	<ul style="list-style-type: none"> <li>• Coastal Erosion</li> </ul>		
20	<p>Patterns in the Sky</p> <ul style="list-style-type: none"> <li>• Solar System Formation</li> <li>• Gravity and Orbital Motion</li> <li>• Galaxies and the Universe</li> <li>• Seasons</li> <li>• Earth-Sun-Moon System</li> <li>• Moon Phases</li> <li>• Eclipses</li> </ul>	<p>MS-ESS1-1  MS-ESS1-2  MS-ESS1-3  MS-ETS1-1</p>	<p><i>How are we connected to the patterns in the sky and space?</i></p>