

Science Grade 8 Scope & Sequence

Days	Unit	Standard(s)/Outcome(s)	Essential/Guiding Questions
50	Weather, Climate, & Water Cycling <ul style="list-style-type: none"> • Water Cycle • Weather Conditions • Weather Systems • Weather Patterns • Climate Factors • Rain Shadow 	MS-PS1-4 MS-ESS2-4 MS-ESS2-5 MS-ESS2-6	<i>Why does a lot of hail, rain, or snow fall at some times and not others?</i>
19	Greenland is Melting <ul style="list-style-type: none"> • Heat Transfer • Global Climate Change/Human Population • Greenhouse Gases/Ocean Acidification • Human Impact on Earth 	MS-ESS3-1 MS-ESS3-3 MS-ESS3-4 MS-ESS3-5 MS-ETS1-1 MS-ETS1-4	<i>Why is Greenland melting?</i>
35	Plate Tectonics & Rock Cycling <ul style="list-style-type: none"> • Plate Boundaries • Continental Drift • Seafloor Spreading • Rock Cycles • Geologic Features • Evidence of Changes to Earth's Surface • Fossils 	MS-ESS1-4 MS-ESS2-1 MS-ESS2-2 MS-ESS2-3	<i>What causes Earth's surface to change?</i>

28	<p>Japan Tsunami 2011</p> <ul style="list-style-type: none"> ● Natural Hazards ● Risks and Forecasting ● Protection ● Detection and Warning ● Shake Table 	<p>MS-ESS2-2 MS-ESS3-2 MS-ETS1-2 MS-ETS1-3</p>	<p><i>Where do natural hazards happen? How do we prepare for them?</i></p>
33	<p>Patterns in the Sky</p> <ul style="list-style-type: none"> ● Gravity ● Galaxies ● Milky Way ● Nebular Theory ● Seasons ● Distance and Motion ● Small Bodies in our Solar System ● Large Bodies in our Solar System ● Moon Formation and Phases ● Eclipses ● Tides 	<p>MS-ESS1-1 MS-ESS1-2 MS-ESS1-3 MS-ETS1-4</p>	<p><i>How are we connected to the patterns in the sky and space?</i></p>