

# Grade 7 Storyline

	<b>Bundle</b>	<b>Suggested Pacing</b>	<b>Anchoring Phenomena</b>	<b>Scopes</b>
1	<b>Organisms and Nonliving Things are Made of Atoms</b>	<b>9 weeks</b>	Do soil samples taken from a newly discovered planet provide enough evidence of life and natural resources to support future explorations of this planet?	<b>Competition in Ecosystems</b> <b>Organism Interactions in Ecosystems</b> <b>Human Dependence on Natural Resources</b> <b>Structure of Matter</b> <b>Changes in Energy on the Molecular Level</b> <b>Heat and Matter</b>
2	<b>Matter Cycles and Energy Flows through Organisms and Rocks</b>	<b>11 weeks</b>	How can humans successfully colonize Mars?	<b>Characteristics of Chemical Reactions</b> <b>Physical and Chemical Properties</b> <b>Modeling Conservation of Mass</b> <b>Thermal Energy in Chemical Reactions</b> <b>Introduction to Photosynthesis</b> <b>Energy Flow in Organisms</b> <b>Earth Materials</b>

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## Suggested Pacing

## Anchoring Phenomena

## Scopes

3	<p><b>Natural Processes and Human Activities Shape Earth's Resources and Ecosystems</b></p>	6 weeks	<p>How will the movement of continents affect the matter and energy flow within the new ecosystems?</p>	<p>Relationship in Ecosystems</p> <p>Flow of Energy in Ecosystems</p> <p>Plate Tectonics</p> <p>Seafloor Spreading</p> <p>Organism Interactions in Ecosystems</p> <p>Competition in Ecosystems</p> <p>Human Dependence on Natural Resources</p> <p>Characteristics of Chemical Reactions</p> <p>Modeling Conservation of Mass</p>
4	<p><b>Sustaining Biodiversity and Ecosystem Services in a Changing World</b></p>	10 weeks	<p>How will geoscience processes affect biodiversity in Sunnyville, California, 40 years from now?</p>	<p>Dynamic Nature of Ecosystems</p> <p>Ecosystem Biodiversity</p> <p>Geoscience Processes</p> <p>Weathering and Erosion</p> <p>Natural Hazard Predictions</p> <p>Synthetic Materials</p>