

Science: Grade 5

UNIT/Weeks	Timeline/Topics	Essential Questions
1.6	<p><u>Structures and Properties of Matter</u></p> <ul style="list-style-type: none"> • Matter's Structure • Matter's Properties • Metals and Nonmetals 	<ul style="list-style-type: none"> • How are the particles in matter organized? • How do the particles in matter affect its properties? • What are some properties of metals and nonmetals?
1.6	<p><u>Physical and Chemical Changes</u></p> <ul style="list-style-type: none"> • Physical Changes • Mixtures and Solutions • Chemical Changes 	<ul style="list-style-type: none"> • What happens to the amount of matter when it changes state? • What happens when different types of matter are mixed? • How does matter change when it interacts with other matter?
1.6	<p><u>Plant and Animal Needs</u></p> <ul style="list-style-type: none"> • Plants and Photosynthesis • Animals and Cellular Respiration • Plants and Cellular Respiration 	<ul style="list-style-type: none"> • What do plants need to survive? • How do animals get energy from food? • How do plants use energy?
1.6	<p><u>Matter in Ecosystems</u></p> <ul style="list-style-type: none"> • Interactions of Living Things • Balance in Ecosystems • Cycles in Ecosystems 	<ul style="list-style-type: none"> • How does energy flow in an ecosystem? • How do changes affect ecosystems? • How is matter cycled through ecosystems?
1.6	<p><u>Interactions of Earth's Major Systems</u></p> <ul style="list-style-type: none"> • Earth's Major System • Effects of the Geosphere • Effects of the Hydrosphere • Effects of the Atmosphere • Effects of the Biosphere 	<ul style="list-style-type: none"> • How do scientists define Earth's major systems? • How does the geosphere affect other systems? • How does the hydrosphere affect other systems? • How does the atmosphere affect other systems? • How does the biosphere affect other systems?

1.6	<p><u>The Solar System and Beyond</u></p> <ul style="list-style-type: none">• Movements of the Sun, Earth, and the Moon• Patterns of the Moon• Objects in Space• Stars and Star Patterns	<ul style="list-style-type: none">• How do the Sun, Earth, and the Moon interact?• What causes the repeating patterns of the Moon's appearance?• What other objects can be found in space?• What are stars, and why are some stars brighter than others?
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