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| **Content Area** | Science | **Grade Level** | 8th Grade |
| **Course Name/Course Code** |  |
| **Standard** | **Grade Level Expectations (GLE)** | **GLE Code** |
| 1. Physical Science
 | 1. Identify and calculate the direction and magnitude of forces that act on an object, and explain the results in the object’s change of motion
 | SC09-GR.8-S.1-GLE.1 |
| 1. There are different forms of energy, and those forms of energy can be changed from one form to another – but total energy is conserved
 | SC09-GR.8-S.1-GLE.2 |
| 1. Distinguish between physical and chemical changes, noting that mass is conserved during any change
 | SC09-GR.8-S.1-GLE.3 |
| 1. Recognize that waves such as electromagnetic, sound, seismic, and water have common characteristics and unique properties
 | SC09-GR.8-S.1-GLE.4 |
| 1. Life Science
 | 1. Human activities can deliberately or inadvertently alter ecosystems and their resiliency
 | SC09-GR.8-S.2-GLE.1 |
| 1. Organisms reproduce and transmit genetic information (genes) to offspring, which influences individuals’ traits in the next generation
 | SC09-GR.8-S.2-GLE.2 |
| 1. Earth Systems Science
 | 1. Weather is a result of complex interactions of Earth's atmosphere, land and water, that are driven by energy from the sun, and can be predicted and described through complex models
 | SC09-GR.8-S.3-GLE.1 |
| 1. Earth has a variety of climates defined by average temperature, precipitation, humidity, air pressure, and wind that have changed over time in a particular location
 | SC09-GR.8-S.3-GLE.2 |
| 1. The solar system is comprised of various objects that orbit the Sun and are classified based on their characteristics
 | SC09-GR.8-S.3-GLE.3 |
| 1. The relative positions and motions of Earth, Moon, and Sun can be used to explain observable effects such as seasons, eclipses, and Moon phases
 | SC09-GR.8-S.3-GLE.4 |
| **Colorado 21st Century Skills****Critical Thinking and Reasoning:** *Thinking Deeply, Thinking Differently***Information Literacy:** *Untangling the Web***Collaboration:** *Working Together, Learning Together***Self-Direction:** *Own Your Learning***Invention:** *Creating Solutions* | **Reading & Writing Standards for Literacy****in Science and Technical Subjects 6 - 12****Reading Standards** * Key Ideas & Details
* Craft And Structure
* Integration of Knowledge and Ideas
* Range of Reading and Levels of Text Complexity

**Writing Standards** * Text Types & Purposes
* Production and Distribution of Writing
* Research to Construct and Present Knowledge
* Range of Writing
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| **Unit Titles** | **Length of Unit/Contact Hours** | **Unit Number/Sequence** |
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| **Unit Title** |  | **Length of Unit** |  |
| **Focusing Lens(es)** |  | **Standards and Grade Level Expectations Addressed in this Unit** |  |
| **Inquiry Questions (Engaging- Debatable):**  |  |
| **Unit Strands** |  |
| **Concepts** |  |

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| **Generalizations****My students will Understand that…** | **Guiding Questions** **Factual Conceptual** |
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