

Disciplinary Core Ideas

Life Science	Earth & Space Science	Physical Science
<p>From molecules to organisms: Structures and processes</p> <p>LS1.A: Structure and function LS1.B: Growth and development of organisms LS1.C: Organization for matter & flow in organisms LS1.D: Information processing</p>	<p>Earth's place in the universe</p> <p>ESS1.A: The universe and its stars ESS1.B: Earth and the solar system ESS1.C: The history of planet Earth</p>	<p>Matter and its interactions</p> <p>PS1.A: Structure and properties of matter PS1.B: Chemical reactions PS1.C: Nuclear processes</p>
<p>Ecosystems: Interactions, energy, and dynamics</p> <p>LS2.A: Interdependent relationships in ecosystems LS2.B: Cycles of matter and energy transfer in ecosystems LS2.C: Ecosystem dynamics, functioning, and resilience LS2.D: Social interactions and group behavior</p>	<p>Earth's systems</p> <p>ESS2.A: Earth materials and systems ESS2.B: Plate tectonics and large-scale system interactions ESS2.C: The roles of water in Earth's surface processes ESS2.D: Weather and climate ESS2.E: Biogeology</p>	<p>Motion and stability: Forces and interactions</p> <p>PS2.A: Forces and motion PS2.B: Types of interactions PS2.C: Stability and instability in physical systems</p>
<p>Heredity: Inheritance and variation of traits</p> <p>LS3.A: Inheritance of traits LS3.B: Variation of traits</p>	<p>Earth and human activity</p> <p>ESS3.A: Natural resources ESS3.B: Natural hazards ESS3.C: Human impacts on Earth systems ESS3.D: Global climate change</p>	<p>Energy</p> <p>PS3.A: Definitions of energy PS3.B: Conservation of energy & energy transfer PS3.C: Relationship between energy & forces PS3.D: Energy in chemical processes & everyday life</p>
<p>Biological evolution: Unity and diversity</p> <p>LS4.A: Evidence of common ancestry and diversity LS4.B: Natural selection LS4.C: Adaptation LS4.D: Biodiversity and humans</p>		<p>Waves and their applications in technologies for information transfer</p> <p>PS4.A: Wave properties PS4.B: Electromagnetic radiation PS4.C: Information technologies & instrumentation</p>
<p>Engineering, Technology, and the Application of Science</p>		
<p>ETS1.A: Defining and delimiting engineering problems ETS1.B: Developing possible solutions ETS1.C: Optimizing the design solution</p>		