

Next Generation Science Standards for Landfill and Recycling Center Field Trip



Science & Engineering Practices



Disciplinary Core Idea



Crosscutting Concept

3rd	4th	5th	6th
<p>3-LS2 Ecosystems: Interactions, Energy, and Dynamics</p> <p>LS2.D: Social Interactions and Group Behavior Being part of a group helps animals obtain food...</p> <hr/> <p>3-PS2 Motion and Stability: Forces and Interactions</p> <p>PS2.B: Types of Interactions</p> <ul style="list-style-type: none"> Objects in contact exert forces on each other. (3-PS2-1) Electric, and magnetic forces between a pair of objects...(3-PS2-3),(3-PS2-4) <p>Cause and Effect</p> <ul style="list-style-type: none"> Cause and effect relationships are routinely identified... (3-PS2-1) <hr/> <p>3-5-ETS1 Engineering Design</p> <p>Asking Questions and Defining Problems Asking questions and defining problems...</p> <p>Influence of Engineering, Technology, and Science on Society and the Natural World</p> <ul style="list-style-type: none"> People's needs and wants change over time... (3-5-ETS1-1) <p>Engineers improve existing technologies...(3-5-ETS-2)</p>	<p>4-ESS3 Earth and Human Activity</p> <p>ESS3.A: Natural Resources</p> <ul style="list-style-type: none"> Energy and fuels that humans use are derived from natural sources... (4-ESS3-1) <hr/> <p>4-PS3 Energy</p> <p>PS3.D: Energy in Chemical Processes and Everyday Life</p> <ul style="list-style-type: none"> The expression "produce energy"...(4-PS3-4) <hr/> <p>3-5-ETS1 Engineering Design</p> <p>Asking Questions and Defining Problems Asking questions and defining problems...</p> <p>Influence of Engineering, Technology, and Science on Society and the Natural World</p> <ul style="list-style-type: none"> People's needs and wants change over time... (3-5-ETS1-1) <p>Engineers improve existing technologies...(3-5-ETS-2)</p>	<p>5-LS2 Ecosystems: Interactions, Energy, and Dynamics</p> <p>LS2.A: Interdependent Relationships in Ecosystems</p> <ul style="list-style-type: none"> The food of almost any kind of animal can be traced back to plants...5-LS2-1) <p>LS2.B: Cycles of Matter and Energy Transfer in Ecosystems Matter cycles between the air and soil... (5-LS2-1)</p> <hr/> <p>5-ESS3 Earth and Human Activity</p> <p>ESS3.C: Human Impacts on Earth Systems Human activities in agriculture, industry...(5-ESS3-1)</p> <hr/> <p>3-5-ETS1 Engineering Design</p> <p>Asking Questions and Defining Problems Asking questions and defining problems...</p> <p>Influence of Engineering, Technology, and Science on Society and the Natural World</p> <ul style="list-style-type: none"> People's needs and wants change over time... (3-5-ETS1-1) <p>Engineers improve existing technologies...(3-5-ETS-2)</p>	<p>MS-ESS3 Earth and Human Activity</p> <p>ESS3.C: Human Impacts on Earth Systems</p> <ul style="list-style-type: none"> Human activities have significantly altered the biosphere...(MS-ESS3-3) <p>ESS3.D: Global Climate Change Human activities, such as the release of greenhouse gases...(MS-ESS3-5)</p> <hr/> <p>MS-ETS1 Engineering Design</p> <p>Asking Questions and Defining Problems Asking questions and defining problems...</p> <p>Influence of Science, Engineering, and Technology on Society and the Natural World</p> <ul style="list-style-type: none"> All human activity draws on natural resources...(MS-ETS1-1) <p>The uses of technologies...(MS-ETS1-1)</p>