

# Next Generation Science Standards for Introduction to Recycling



Science & Engineering Practices



Disciplinary Core Idea



Crosscutting Concept

K	1st	2nd	3rd	4th	5th	6th
<p><b>K-ESS2 Earth's Systems</b> <b>ESS3.C: Human Impacts on Earth Systems</b> Things that people do to live comfortably can affect the world around them...</p> <hr/> <p><b>K-ESS3 Earth and Human Activity</b> <b>ESS3.A: Natural Resources</b></p> <ul style="list-style-type: none"> <li>Humans use natural resources for everything they do. (K-ESS3-1)</li> </ul> <p><b>Interdependence of Science, Engineering, and Technology</b></p> <ul style="list-style-type: none"> <li>People encounter questions about the natural world every day. (K-ESS3-2)</li> </ul> <p><b>Influence of Engineering, Technology, and Science on Society and the Natural World</b> People depend on various technologies in their lives... (K-ESS3-2)</p> <hr/> <p><b>K-2 Engineering Design</b></p> <p><b>Asking Questions and Defining Problems</b> Asking questions ... Ask questions based on observations... (K-2-ETS1-1)</p> <p><b>ETS1.A: Defining and Delimiting Engineering Problems</b></p> <ul style="list-style-type: none"> <li>A situation that people want to change...(K-2-ETS1-1)</li> </ul>	<p><b>1-LS1 From Molecules to Organisms: Structures and Processes</b></p> <p><b>Influence of Science, Engineering and Technology on Society and the Natural World</b></p> <ul style="list-style-type: none"> <li>Every human-made product is designed... (1-LS1-1)</li> </ul> <hr/> <p><b>K-2 Engineering Design</b></p> <p><b>Asking Questions and Defining Problems</b> Asking questions...</p> <ul style="list-style-type: none"> <li>Ask questions based on observations...(s). (K-2-ETS1-1)</li> </ul> <p><b>ETS1.A: Defining and Delimiting Engineering Problems</b></p> <ul style="list-style-type: none"> <li>A situation that people want to change... (K-2-ETS1-1)</li> </ul>	<p><b>2-ESS2 Earth's Systems</b> <b>Stability and Change</b></p> <ul style="list-style-type: none"> <li>Things may change slowly or rapidly. (2-ESS2-1)</li> </ul> <p><b>Influence of Engineering, Technology, and Science on Society and the Natural World</b></p> <ul style="list-style-type: none"> <li>Developing and using technology has impacts on the natural world. (2-ESS2-1)</li> </ul> <hr/> <p><b>2-PS1 Matter and its Interactions</b></p> <p><b>PS1.B: Chemical Reactions</b> Heating or cooling a substance.... (2-PS1-4)</p> <p><b>Influence of Engineering, Technology, and Science on Society and the Natural World</b> Every human-made product is designed... (2-PS1-2)</p> <hr/> <p><b>K-2 Engineering Design</b></p> <p><b>Asking Questions and Defining Problems</b> Asking questions...</p> <ul style="list-style-type: none"> <li>Ask questions based on observations...(K-2-ETS1-1)</li> </ul> <p><b>ETS1.A: Defining and Delimiting Engineering Problems</b></p> <ul style="list-style-type: none"> <li>A situation that people want to change...(K-2-ETS1-1)</li> </ul>	<p><b>3-LS4 Biological Evolution: Unity and Diversity</b></p> <p><b>LS2.C: Ecosystem Dynamics, Functioning, and Resilience</b></p> <ul style="list-style-type: none"> <li>When the environment changes...</li> </ul> <hr/> <p><b>3-ESS3 Earth and Human Activity</b></p> <p><b>Influence of Engineering, Technology, and Science on Society and the Natural World</b></p> <ul style="list-style-type: none"> <li>Engineers improve existing technologies... (3-ESS3-1)</li> </ul> <hr/> <p><b>3-5-ETS1 Engineering Design</b></p> <p><b>Asking Questions and Defining Problems</b> Asking questions...</p> <p><b>Influence of Engineering, Technology, and Science on Society and the Natural World</b></p> <ul style="list-style-type: none"> <li>People's needs and wants change over time... (3-5-ETS1-1)</li> </ul> <p>Engineers improve existing technologies...(3-5-ETS-2)</p>	<p><b>4-ESS3 Earth and Human Activity</b></p> <p><b>ESS3.A: Natural Resources</b></p> <ul style="list-style-type: none"> <li>Energy and fuels that humans use are derived from natural sources... (4-ESS3-1)</li> </ul> <p><b>Influence of Engineering, Technology, and Science on Society and the Natural World</b></p> <ul style="list-style-type: none"> <li>Over time, people's needs and wants change... (4-ESS3-1)</li> </ul> <p>Engineers improve existing technologies... (4-ESS3-2)</p> <hr/> <p><b>3-5-ETS1 Engineering Design</b></p> <p><b>Asking Questions and Defining Problems</b> Asking questions...</p>	<p><b>5-ESS3 Earth and Human Activity</b></p> <p><b>ESS3.C: Human Impacts on Earth Systems</b> Human activities in agriculture, industry... (5-ESS3-1)</p> <hr/> <p><b>3-5-ETS1 Engineering Design</b></p> <p><b>Asking Questions and Defining Problems</b> Asking questions ...</p> <p><b>Influence of Engineering, Technology, and Science on Society and the Natural World</b></p> <ul style="list-style-type: none"> <li>People's needs and wants change over time... (3-5-ETS1-1)</li> </ul> <p>Engineers improve existing technologies...(3-5-ETS-2)</p>	<p><b>MS-ESS3 Earth and Human Activity</b></p> <p><b>Asking Questions and Defining Problems</b> Asking questions...</p> <ul style="list-style-type: none"> <li>Ask questions... (MS-ESS3-5)</li> </ul> <p><b>ESS3.C: Human Impacts on Earth Systems</b></p> <ul style="list-style-type: none"> <li>Human activities have significantly altered...(MS-ESS3-3)</li> </ul> <p><b>ESS3.D: Global Climate Change</b> Human activities, such as the release of greenhouse gases from burning fossil fuels... (MS-ESS3-5)</p> <p><b>Influence of Science, Engineering, and Technology on Society and the Natural World</b> The uses of technologies...(MS-ESS3-3)</p> <hr/> <p><b>MS-ETS1 Engineering Design</b></p> <p><b>Influence of Science, Engineering, and Technology on Society and the Natural World</b></p> <ul style="list-style-type: none"> <li>All human activity draws on natural resources...(MS-ETS1-1)</li> </ul> <p>The uses of technologies and limitations on their use...(MS-ETS1-1)</p>