

# Next Generation Science Standards for The TreeMendous Paper Tale



Science & Engineering Practices



Disciplinary Core Idea



Crosscutting Concept

K	1st	2nd	3rd	4th	5th	6th
<p><b>K-ESS2 Earth's Systems</b></p> <p><b>ESS3.C: Human Impacts on Earth Systems</b> Things that people do to live comfortably...</p> <hr/> <p><b>K-ESS3 Earth and Human Activity</b></p> <p><b>Asking Questions and Defining Problems</b> Asking questions... ▪ Ask questions based on observations...(K-ESS3-2)</p> <p><b>ESS3.A: Natural Resources</b> ▪ Humans use natural resources for everything they do. (K-ESS3-1)</p> <p><b>Interdependence of Science, Engineering, and Technology</b> ▪ People encounter questions about the natural world every day. (K-ESS3-2)</p> <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>	<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> ▪ Every human-made product is designed...(1-LS1-1)</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> ▪ A situation that people want to change...(K-2-ETS1-1)</p> <hr/> <p><b>1-PS4 Waves and their Applications in Technologies for Information Transfer</b></p> <p><b>Influence of Engineering, Technology, and Science, on Society and the Natural World</b> People depend on various technologies in their lives.... (1-PS4-4)</p>	<p><b>2-PS1 Matter and its Interactions</b></p> <p><b>PS1.A: Structure and Properties of Matter</b> ▪ Different kinds of matter exist and many of them can be either solid or liquid... (2-PS1-1)</p> <hr/> <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... ▪ Ask questions based on observations...(K-2-ETS1-1)</p> <hr/> <p><b>ETS1.A: Defining and Delimiting Engineering Problems</b> ▪ A situation that people want to change... (K-2-ETS1-1)</p>	<p><b>3-LS1 From Molecules to Organisms: Structures and Processes</b></p> <p><b>LS1.B: Growth and Development of Organisms</b> ▪ Plants and animals have unique and diverse life cycles. (3-LS1-1)</p> <hr/> <p><b>3-LS4 Biological Evolution: Unity and Diversity</b></p> <p><b>LS2.C: Ecosystem Dynamics, Functioning, and Resilience</b> ▪ When the environment changes...</p> <hr/> <p><b>3-ESS3 Earth and Human Activity</b></p> <p><b>Science is a Human Endeavor</b> Science affects everyday life. (3-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> ▪ People's needs and wants change over time... (3-5-ETS1-1) Engineers improve existing technologies... (3-5-ETS-2)</p>	<p><b>4-ESS2 Earth's Systems</b></p> <p><b>ESS2.E: Biogeology</b> Living things affect the physical characteristics of their regions. (4-ESS2-1)</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> ▪ People's needs and wants change over time... (3-5-ETS1-1) ▪ Engineers improve existing technologies...(3-5-ETS-2)</p>	<p><b>5-LS2 Ecosystems: Interactions, Energy, and Dynamics</b></p> <p><b>LS2.B: Cycles of Matter and Energy Transfer in Ecosystems</b> Matter cycles between the air and soil...(5-LS2-1)</p> <hr/> <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> ▪ People's needs and wants change over time...(3-5-ETS1-1) 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... ▪ Ask question... (MS-ESS3-5)</p> <p><b>ESS3.C: Human Impacts on Earth Systems</b> ▪ Human activities have significantly altered...(MS-ESS3-3)</p> <p><b>ESS3.D: Global Climate Change</b> Human activities, such as the release of greenhouse gases... (MS-ESS3-5)</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> ▪ All human activity draws on natural resources...(MS-ETS1-1) The uses of technologies and limitations...(MS-ETS1-1)</p>