

# Next Generation Science Standards for Vermicomposting

Science & Engineering Practices

Disciplinary Core Idea

Crosscutting Concept

K	1st	2nd	3rd	4th	5th	6th
<p><b>K-LS1 From Molecules to Organisms: Structures and Processes</b></p> <p><b>LS1.C: Organization for Matter and Energy Flow in Organisms</b> All animals need food in order to live...(K-LS1-1)</p> <hr/> <p><b>K-ESS2 Earth's Systems</b></p> <p><b>ESS2.E: Biogeology</b> Plants and animals can change their environment. (K-ESS2-2)</p> <hr/> <p><b>K-ESS3 Earth and Human Activity</b></p> <p><b>Asking Questions and Defining Problems</b> Asking questions... Ask questions...(K-ESS3-2)</p> <p><b>Developing and Using Models</b> Modeling in K-2 builds on prior experiences... Use a model...(K-ESS3-1)</p> <p><b>ESS3.A: Natural Resources</b> Living things need water, air, and resources...(K-ESS3-1)</p> <p><b>ESS3.C: Human Impacts on Earth Systems</b> Things that people do to live comfortably...(K-ESS3-3)</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>1-LS1 From Molecules to Organisms: Structures and Processes</b></p> <p><b>LS1.A: Structure and Function</b> All organisms have external parts... (1-LS1-1)</p> <p><b>LS1.B: Growth and Development of Organisms</b> Adult plants and animals can have young... (1-LS1-2)</p> <p><b>LS1.D: Information Processing</b> Animals have body parts... (1-LS1-1)</p> <p><b>Influence of Science, Engineering and Technology on Society and the Natural World</b> Every human-made product...(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...(K-2-ETS1-1)</p>	<p><b>2-LS2 Ecosystems: Interactions, Energy, and Dynamics</b></p> <p><b>LS2.A: Interdependent Relationships in Ecosystems</b> Plants depend on water and light to grow. (2-LS2-1)</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>Developing and Using Models</b> Modeling in K-2 builds on...</p> <p><b>Structure and Function</b> The shape and stability of structures... (K-2-ETS1-2)</p>	<p><b>3-LS1 From Molecules to Organisms: Structures and Processes</b></p> <p><b>Developing and Using Models</b> Modeling in 3-5 builds on...</p> <p><b>LS1.B: Growth and Development of Organisms</b> Reproduction is essential...(3-LS1-1)</p> <hr/> <p><b>3-LS2 Ecosystems: Interactions, Energy, and Dynamics</b></p> <p><b>LS2.D: Social Interactions and Group Behavior</b> Being part of a group...</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... For any particular environment...</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> <p><b>Asking Questions and Defining Problems</b> Asking questions...</p>	<p><b>4-LS1 From Molecules to Organisms: Structures and Processes</b></p> <p><b>LS1.A: Structure and Function</b> Plants and animals have both internal and external structures...(4-LS1-1)</p> <p><b>LS1.D: Information Processing</b> Different sense receptors are specialized...(4-LS1-2)</p> <hr/> <p><b>4-PS3 Energy</b></p> <p><b>Asking Questions and Defining Problems</b> Asking questions...</p> <p><b>Science is a Human Endeavor</b> Science affects everyday life. (4-PS3-4)</p> <hr/> <p><b>4-PS4 Waves and their Applications in Technologies for Information Transfer</b></p> <p><b>Developing and Using Models</b> Modeling in 3-5 builds on...</p>	<p><b>5-LS2 Ecosystems: Interactions, Energy, and Dynamics</b></p> <p><b>Developing and Using Models</b> Modeling in 3-5 builds on...</p> <p><b>LS2.A: Interdependent Relationships in Ecosystems</b> The food of almost any kind of animal can be traced back to plants...(5-LS2-1)</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> <p><b>Systems and System Models</b> A system can be described...(5-LS2-1)</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>MS-LS1 From Molecules to Organisms: Structures and Processes</b></p> <p><b>LS1.B: Growth and Development of Organisms</b> Animals engage in characteristic behaviors...(MS-LS1-4)</p> <hr/> <p><b>MS-LS3 Heredity: Inheritance and Variation of Traits</b></p> <p><b>Developing and Using Models</b> Modeling in 6-8 builds on...</p> <p><b>LS1.B: Growth and Development of Organisms</b> Organisms reproduce...</p> <hr/> <p><b>MS-ESS3 Earth and Human Activity</b></p> <p><b>Asking Questions and Defining Problems</b> Asking questions... Ask questions...(MS-ESS3-5)</p>