

HISI - Lesson Outline

Module Title Let's Talk Trash

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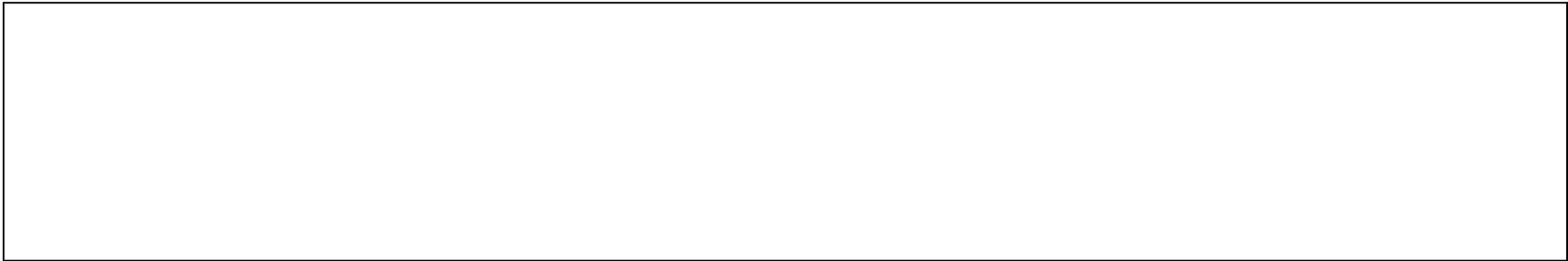
Russ _____ Grade level: 5

Lesson # 1 Title: Compost 101/Wiggly Worm	Number of Minutes: Two 75 minutes periods
<p>Mathematical purpose: To interpret and analyze data about trash and model with math.</p>	<p>Scientific Purpose: Reduce human impact on our school, home, and community.</p>
<p>Materials needed: Computer Trash can full of waste Soil Wiggly Worm Worksheet Red Wiggler Worms Ruler Damp paper towels</p>	<p>Academic vocabulary: Reduce Reuse Recycle Categorize Classify</p>
<p>Common Core Standards (copy and paste):</p> <p>http://www.corestandards.org/ELA-Literacy/W/5/2/e/</p> <p>http://www.corestandards.org/ELA-Literacy/W/5/3/d/</p> <p>http://www.corestandards.org/ELA-Literacy/W/5/3/e/</p> <p>http://www.corestandards.org/ELA-Literacy/W/5/6/</p>	<p>Next Generation Science Standards (copy and paste):</p> <p>(5-PS1-1) Planning and Carrying Out Investigations to answer questions or test solutions to problems.</p> <p>(5-PS1-3) Using Mathematics and Computational Thinking in 3–5 builds on K–2 experiences and progresses to extending quantitative measurements to a variety of physical properties and using computation and mathematics to analyze data and compare alternative design solutions. Measure and graph quantities such as weight to address scientific and engineering questions and problems.</p>

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<p>When students are finished they will understand:</p> <p>Students will understand what materials can be composted.</p> <p>Students will understand how the composted items break down into soil with the help of worms.</p>	<p>What are teacher questions or prompts?</p> <p>What materials are compostable?</p> <p>What materials can be recycled?</p>
<p>What are questions you anticipate students will have?</p> <p>Why does the line go down? Why does the line go up?</p> <p>Why did the trash stay the same?</p>	<p>What are misconceptions students might have?</p> <p>They will think that waste less than they do.</p>
<p>General outline of the lesson:</p> <p>Hook</p> <p>Introduction of the focus for the day/recording sheet</p> <p>Predictions</p> <p>Analyzing the data collected</p> <p>Discussion on increase/decrease of waste off of table</p> <p>Plot data</p> <p>Look for trend</p> <p>Compare data from week 1/week 2 off of line graph</p> <p>Conclusion</p>	

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Supplemental files/resources will follow