

HISI - Lesson Outline

Module Title Let's Talk Trash

LS Team A.Crosswhite, N. Kiser, O. Tomlin, B.

Russ _____ Grade level: 5

Lesson # 2 Title: Where does our Waste go?	Number of Minutes: 75 minutes
Mathematical purpose: To interpret and analyze data about trash and model with math.	Scientific Purpose: Reduce human impact on our school, home, and community.
Materials needed: Water collection materials Drain pipes Liquid measurement tools	Academic vocabulary: Recycle Compost Categorize Classify
Common Core Standards (copy and paste):	Next Generation Science Standards (copy and paste): (5-PS1-1) Planning and Carrying Out Investigations to answer questions or test solutions to problems. (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. 5-LS2-1 Develop a model to represent movement of matter among plants, animals, decomposers, and the environment.
When students are finished they will understand: How rain water is collected and used for gardening? Student will identify where and how much water is needed for plants to grow.	What are teacher questions or prompts?

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<p>Students will monitor a collection of water and measure how much over time it takes to grow a garden.</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