

# HISI - Lesson Outline

Module Title Let's Talk Trash  
 Russ \_\_\_\_\_ Grade level: 5

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

Lesson # 3 Title: Weigh Our Waste / Problem Solving	Number of Minutes: 2-75 minute class 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:</p> <p>Scale            Trash bin            Recycling bin            Trash bag            computer            Notebook</p>	<p>Academic vocabulary:</p> <p>Recycle            Compost            Categorize            Classify</p>
<p>Common Core Standards (copy and paste):</p> <p>(5-MD-1)            Convert among different-sized standard measurement units within a given measurement system (e.g., convert 5 cm to 0.05 m), and use these conversions in solving multi-step, real-world problems.</p> <p>CCSS.ELA-LITERACY.RI.5.3            Explain the relationships or interactions between two or more individuals, events, ideas, or concepts in a historical, scientific, or technical text based on specific information in the text.</p> <p>CCSS.ELA-LITERACY.W.5.1.B            Provide logically ordered reasons that are supported by facts and details</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>SWBAT understand the difference between trash and waste          SWBAT problem solve to reduce waste in school</p>	<p>What are teacher questions or prompts?          What are some things we can recycle?          What are some things we can reuse?          What are some things we can compost?          How much left, compared to the beginning, do we have left as trash?  <b>What can you do to reduce waste in the lunchroom? At home?</b></p>
<p>What are questions you anticipate students will have?          Which items can be recycled (like styrofoam cannot be in Humboldt Co)</p>	<p>What are misconceptions students might have?          That styrofoam is recyclable          Trash does not affect the world in a negative way drastically</p>
<p>General outline of the lesson:          Hook- How many of you threw something away today? How many of you recycle something today?          Introduction-empty trash bin, sort waste, draw conclusions          Predictions-students will see how little trash will be left in the bin after recycle, reusable, and compostable items.          Discussion- Which items can we put in each category. Are there more items than you predicted that can be recycled?</p> <p>Conclusion-Most of the items from our lunch room can be recycled, reused, or composted. If you make the effort to separate the waste and walk the extra distance to get it there, you will significantly reduce the waste. Only a small amount will be left for the trash.</p>	

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Supplemental files/resources will follow