HISI - Lesson Outline

Module Title	_Let's Talk Trash_		LS Team_	_A.Crosswhite, N. Kiser, O. Tomlin, B.
Russ		Grade level:5		

Lesson # 1 Title: What is Waste?	Number of Minutes: 75 minutes
Mathematical purpose: To interpret and analyze data about trash and	Scientific Purpose: Reduce human impact on our school, home, and
model with math.	community.
To classify and categorize waste to set up table for data collection	Understand the difference between waste(recyclable) and trash
	(non-recyclable)
Materials needed:	Academic vocabulary:
Trash from specific area of the school(cafeteria trash cans) that will be	Reduce
measured	Reuse
Paper to create lists/table	Recycle
Pencil	Categorize
Trash can to throw away trash	Classify
Bags to sort waste	Trash
	Waste
Common Core Standards (copy and paste):	Next Generation Science Standards (copy and paste):
CCSS.Math.Content.5.NBT.A.3	(5-PS1-1) Planning and Carrying Out Investigations to answer
Read, write, and compare decimals to thousandths	questions or test solutions to problems.
Represent and interpret data.	(5-PS1-3) Using Mathematics and Computational Thinking in 3–5 builds
CCSS.Math.Content.5.MD.B.2	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
Graph points on the coordinate plane to solve real-world and	alternative design solutions. Measure and graph quantities such as
mathematical problems.	weight to address scientific and engineering questions and problems.
CCSS.Math.Content.5.G.A.2	

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When students are finished they will understand: Students will be able to understand the difference between waste and trash/recyclables and non recyclables-categorize and classify They will see their impact on the amount of trash that they create and then apply it to the world's problem with trash They will weigh trash and see an amount created to track as data Students will understand the table and how the categories correspond Students will connect the world problem to their school problem of trash overproduction	What are teacher questions or prompts? What is garbage? Why does garbage last so long? Where is the garbage going to go? How do you categorize garbage and why do you need to categorize garbage?
What are questions you anticipate students will have?	What are misconceptions students might have?
Why does the line go down? Why does the line go up?	They will think that waste less than they do.
Why did the trash stay the same?	
General outline of the lesson: Hook Introduction of the focus for the day/recording sheet	
Weigh trash- Predictions	

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Analyzing the data collected
Discussion on increase/decrease of waste off of table
Plot data
Look for trend
Compare data from week 1/week 2 off of line graph
Conclusion

Supplemental files/resources will follow