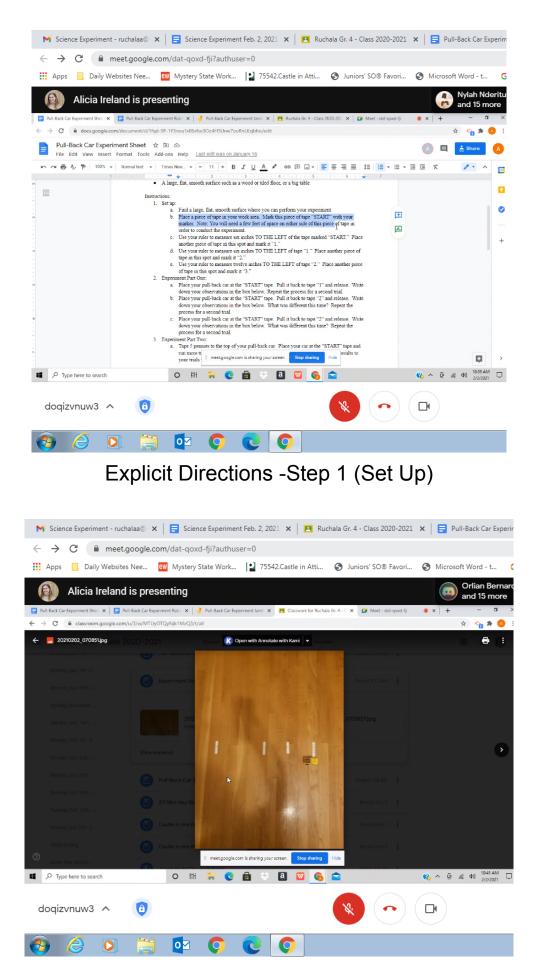
Energy Science Experiment: Feb. 2, 2021 Pull-back Car (Potential and Kinetic Energy)

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	Pull-Back Car Experiment Rubric Fill in every box in the experiment sheet with thoughts and observations.	35 points]	•
	Use at least two of the listed vocabulary words in observations. Participate in the jamboard discussions by	20 points 20 points	-	
- 94 - - -	posting a sticky with name attached. Submit the experiment sheet ON TIME. (by the end of the day todayII)	25 points	_	
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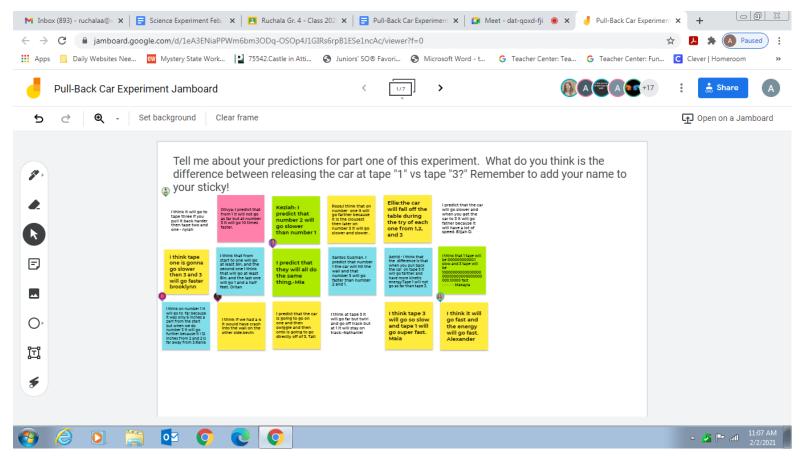
Overview of Pull Back Car Experiment - Rubric

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	Materials: Pull Back Car Exaler Tape Marker Sentries Alarge, flat, smooth surface such as a wood or tiled floer, or a big table Instructions: Set up: a. Find a large, flat, smooth surface where you can perform your experiment. b. Place a piece of tape in your work area. Mark this piece of tape "START" with your marker. Note: You will need a few feet of space on earber suide of this piece of tape in order to cenduct the experiment. C. Use your ruler to measure sat unches YO THE LEFT of the tape marked "START" "Place another piece of tape in its your and mark t""	
	d. Use your ri table in this II meetgoogle.com is sharing your screen. Stop sharing Hide r piece of	
	e. Use your ruler to measure twelve inches 10 THE LET 1 of tabe 2. Prace another piece	
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Review of Directions - Pull Back Car Experiment



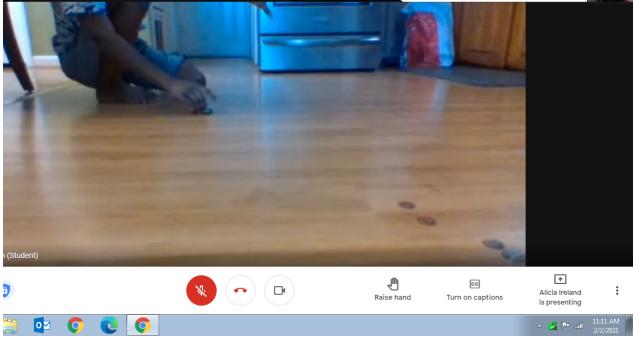
Explanation & model of how to set up tape & work area - Part 1 (Set Up)



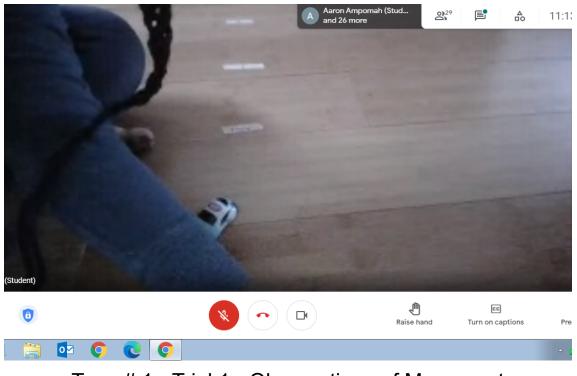
Pull-Back Car Experiment Predictions - Pull Back Car Experiment - Jamboard

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Here is some important vocabulary. Try to use some of these words in your observations!	٠
• Energy: The ability to do work	0
 Potential Energy: Stored energy an object has because of its position or state Elastic Potential Energy: Energy that is stored when an object is stretched or squeezed (like 	
stretching a rubber band on your fingers)	+
 Kinetic Energy: The energy of motion that makes an object move 	
Speed: How quickly an object changes position from one place to another	
 Mass: An object's weight Force: A push or pull on an object 	
 Collision: When two objects come into contact with each other 	
Gravity: An invisible force that pulls things towards each other/the ground	2 of 2
• Friction: The resistance of motion when one object rubs against another	
Observation Sheet: No Pennies	
TAPE # TRIAL # OBSERVATIONS OF MOVEMENT	
Tape "1" Trial 1	D >
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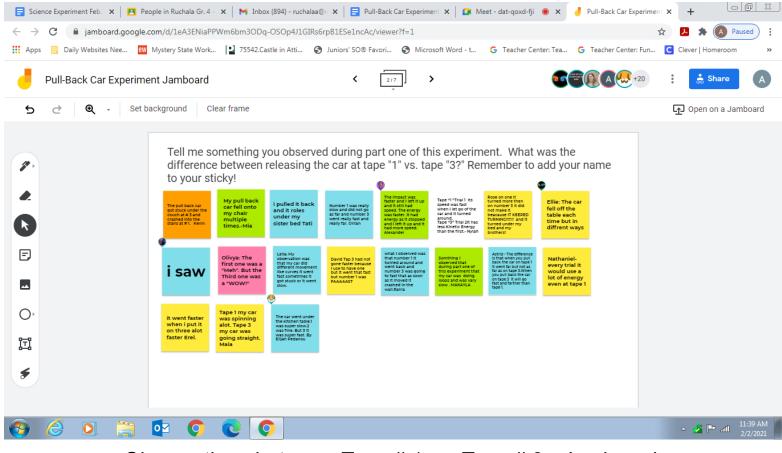
Review of Energy Vocabulary (highlighted in yellow) - Need to include at least 2 of these vocabulary words in written observations



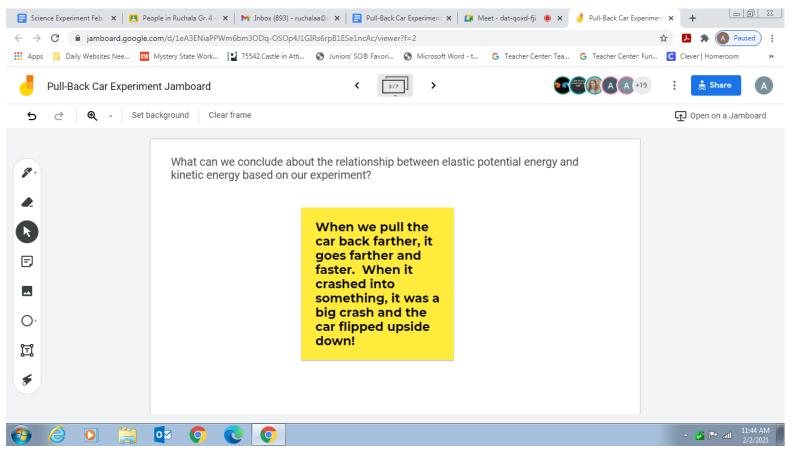
Tape #1 - Trial 1 Observations of Movement



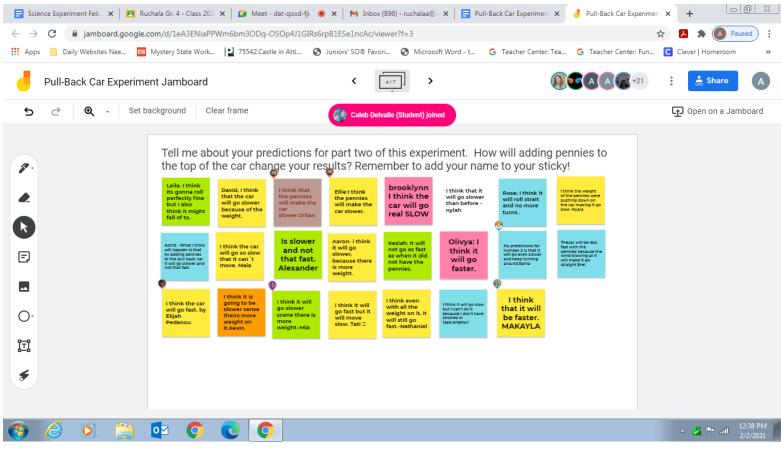
Tape #1 - Trial 1 - Observations of Movement



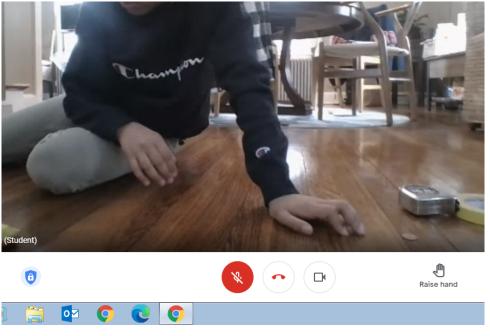
Observations between Tape # 1 vs. Tape # 3 - Jamboard



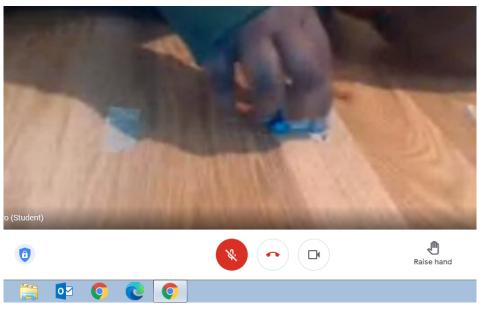
Classroom conclusion - Relationship between potential & kinetic energy



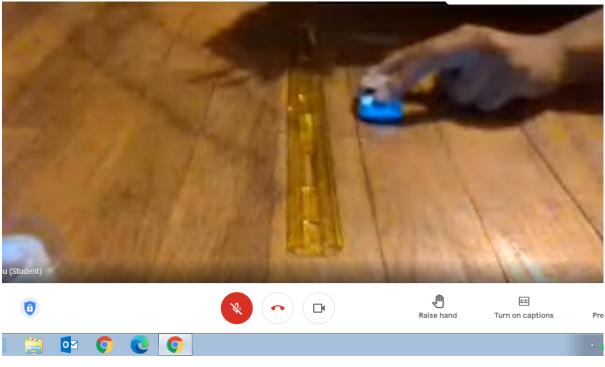
Part 2 - Predictions with Pennies



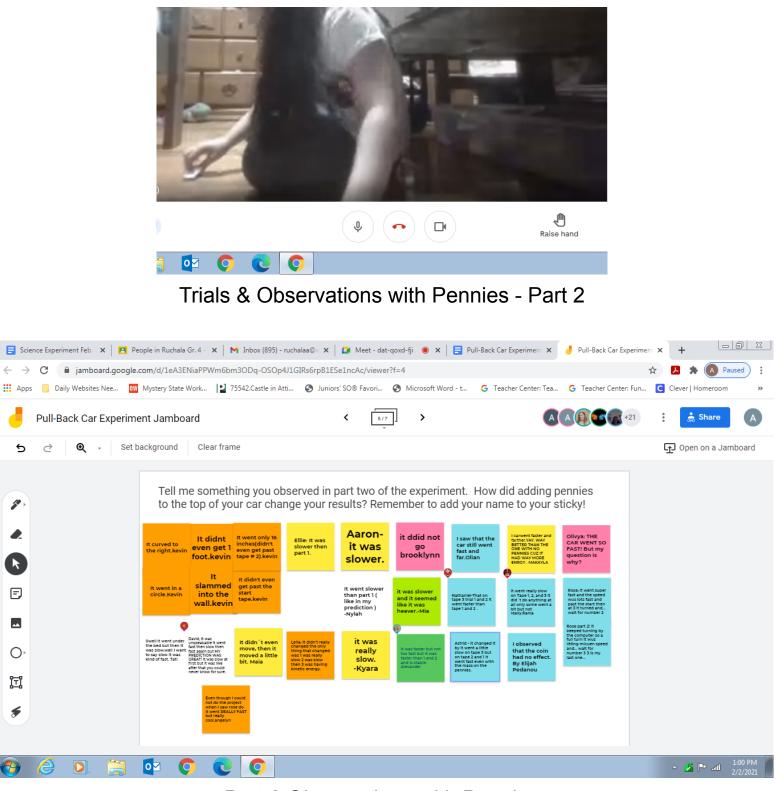
Trials & Observations with Pennies - Part 2



Trials & Observations with Pennies - Part 2



Trials & Observations with Pennies - Part 2



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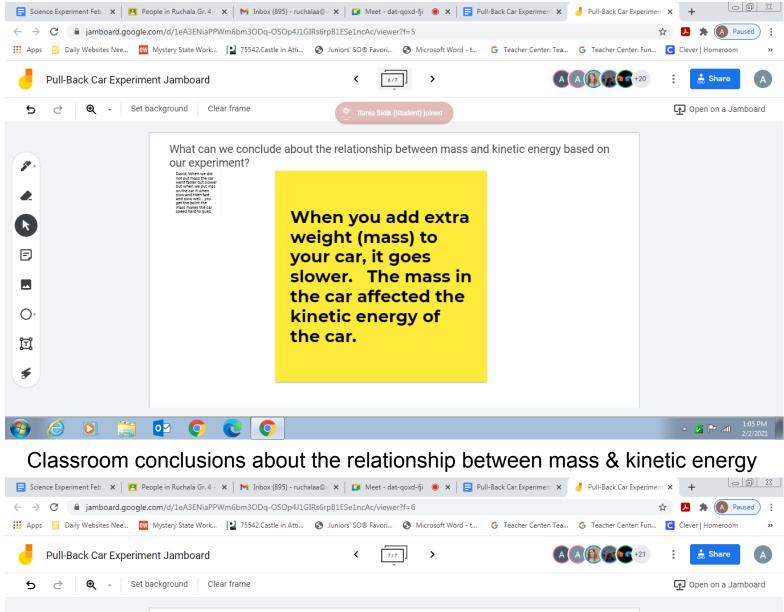
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Part 2 Observations with Pennies



	Set background Creat frame	
*	Think about our other vocabulary words (force, collision, gravity, friction). How might we use our pull-back cars to experiment with these things? Remember to put your name on your sticky!	
	By pulling the car back you are utility active and there in a way out it is a set of the car back you are target on the car and force to pull back the car back the force to back	
,	Pull the car back and let it go. MAKAYLA go. MAKAYLA	
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Integrating Energy Vocabulary with Future Experiments