Letter Balance

Name(s):	Date:			
NGSS GOALS	BRONZE	SILVER	GOLD	PLATINUM
Student work related to this Crosscutting Concept: In this project, we drew and explained how the three important parts of our weighing machine worked.				
Cause and Effect: Mechanism and Explanation: Use cause and effect relationships to explain observations in designed systems.	We drew our weighing machine. We labeled the three important parts of the weighing machine.	We met Bronze. We correctly identified the parts in our weighing machine that caused it to move the pointer for our measurements.	We met Silver. We explained which parts of our weighing machine need to be adjusted to measure heavier objects.	We met Gold. We explained which parts of our weighing machine did not cause it to weigh objects accurately.
2 Student work related	d to this Prostice.			
2. Student work related to this Practice: In this project, we built a model of a tool to measure the weight of different objects.				
Developing and Using Models: Evaluate limitations of a model for a proposed object or tool.	We built the weighing machine according to the building instructions.	We met Bronze. We put markings on our blue plastic scale so we could measure objects in grams.	We met Silver. We built our weighing machine to handle heavier objects by adding an additional counterweight wheel.	We met Gold. We compared our scale with the scales created by our classmates. We used our observations to revise our weighing machine and make improvements.
3. Student work related to this Practice: In this project, we investigated which was better at measuring weight, our hand or our weighing machine.				
Planning and Carrying Out Investigations: Evaluate the accuracy of various methods for collecting data.	We estimated the weight of at least three objects with our hands. We weighed at least three objects with our weighing machine.	We met Bronze. We estimated the weight of two more objects with our hands. We weighed two more objects with our weighing machine.	We met Silver. We changed our weighing machine and investigated the weight of different numbers of coins.	We met Gold. We correctly guessed (within a few coins) the number of coins in the secret money bag. We weighed and made predictions for at least two additional secret money bags.
Notes:				