**Matter, Mass, and Gravity Quiz Study Sheet**

The quiz will have two parts:

Part 1 will be a “retake” of the prequiz that we used to begin the unit.

Part 2 will be thinking questions.

You will be asked to answer 3 of these thinking questions (Ms. G will chose).

1. Which weighs more, 500 grams of feathers or 500 grams of rocks? Explain your answer in writing and with an illustration. Use enough detail in your words and picture to show you deeply understand.
2. Some people think very thin supermodels are the most attractive people. A scientist might argue against this idea using the concepts of mass and gravity. What would the scientist say? Use enough detail in your explanation to show you deeply understand.
3. What is the difference between how we define the word “weight” in everyday life, and how we define “weight” in science class? Explain your answer in writing and with an illustration. Use enough detail in your words and picture to show you deeply understand. Include units of measurement in your explanation.
4. We have used two measurement tools in science class: A spring scale, and a triple beam balance.
   1. Please draw each tool with enough detail to show you understand it. Include units of measurement.
   2. Please explain how to use each tool.
   3. Which tool would you use to measure the weight of a baseball? Explain why.
5. How did you use your knowledge of physical properties of matter and measuring tools to solve the mystery in the penny lab? Explain your answer in writing and by using a data table or graph.
6. How did the mass and volume of the zucchini change during the zucchini lab? Explain your answer in writing and drawing. Use enough detail in your words and picture to show you deeply understand. Include units of measurement in your explanation.