**Physical Science Exam #1 Retake**

**Directions: Please answer the following questions in complete sentences. You may write on a separate piece of paper. Depending on how many questions you missed on the exam will determine how many questions will you need to answer. If you missed 15 or more questions you must answer all the questions. If you missed 10 questions answer only four questions. If you missed 5 questions answer three questions. Each question (2pts) that is answered correctly will help you gain back points on your exam. Test corrections are due next Tuesday, but can be turned in earlier.**

**INCOMPLETE = NO POINTS**

**QUESTIONS MUST BE ANSWERED TO GET THE POINTS**

1. Imagine that you could ride a baseball that is hit hard enough for a home run. If the baseball is your frame of reference, what does the Earth appear to do?
2. How must time does it take for a student running at an average speed of 5.00 m/s to cover a distance of 2.00 km? Please make sure to show your work.
3. When you drive, you will sometimes have to decide in a brief moment whether to stop for a yellow light. Discuss the variables that you must consider in making your decision. Use the concepts of force, acceleration, and velocity in your discussion.
4. There is no gravity in outer space. Write a paragraph explaining whether this statement is true or false (*You may have to do some research to answer this question*).
5. What is inertia, and why it is important in the laws of motion.
6. A wrestler weighs in for the first match on the moon. Will the athlete weigh more or less on the moon than he does on Earth? Explain your answer by using the terms *weight, mass, force,* and *gravity*.