Name

Date

Period

Review for Unit 1 Physics Test

**Definitions and comparisons-**

What is the difference between scalar and vector?

What is the difference between distance and displacement?

Define vector

Draw a picture to represent accuracy, but not precision.

Draw a picture to represent both accuracy and precision.

Draw a picture to represent precision, but not accuracy.

Define acceleration

Per the video, if you were on the moon (no air resistance) and dropped a feather and hammer, which one would hit the ground first? Why?

How can a velocity be negative if it is speeding up? (Think about left-right, north-south, up-down)

**Graphs-**

Sketch a position-time graph (distance and time)- that shows an object standing still for a few seconds, then has a constant velocity, then stops.

Sketch a velocity-time graph- that shows an object moving towards its goal, then turns around and heads back to where it started from

**Calculations-**

If a dog breaks off of its leash travelling 1.5 m/s. How far will it run in 4.9 mins?

A marble has a constant rate as it travels 9 meters down the driveway in 13 s. What is the marble’s velocity? Show your work & show your variable breakdown.

Megan drops a penny from the top staircase which is 5.8 m above the ground. At what rate did the penny hit the ground?