

Sample Summary for The Physics 500

Summary:

I learned how to describe motion by calculating speed. Speed is calculated by dividing distance by time. $\text{speed} = \frac{\text{distance}}{\text{time}}$ $v = \frac{s}{t}$ Velocity is calculated the same way as speed but velocity needs to have a direction. Measurements that need a direction are called vectors. Measurements that don't need a direction are called scalar. Displacement is the name of the quantity that we use when distance has a direction. Displacement is the vector companion of distance.

In this experiment there are two measurement errors. The first is measuring distance with an error of $\pm 0.______ ______$. The second is in measuring time with an error of ± 0.1 seconds.

In future experiments we need to improve on measuring distance and measuring time. We also need to get much more detail in measuring the velocity. In this experiment we measured AVERAGE velocity or AVERAGE speed. In the next experiment we need to learn how to measure MANY more speeds.