

Physics Lab 1: Zooooooooooom! How fast is fast?

Name: _____

Date: _____

Group Members: _____

Objectives

- Identify how to determine an object's speed
- Determine lab procedures to calculate an object's average speed
- Collect and interpret data

Pre-Lab Questions

1. What is a reference point?

2. What two things must you know to determine speed?

3. What is the difference between speed and velocity?

Group Lab

Materials

- Toy car
- Meter stick
- Stopwatch
- Masking tape

In your **groups of three**, discuss and write down the procedure to determine the average speed of your toy car.

Procedure

Class Discussion. As a class we will decide on standard procedures to determine the average speed and velocity.

Procedure

Data Collection

Perform the procedures we determined as a class three times. Record all your data in table below. Be sure to include the units.

| Trial Number | Distance | Time | Average Speed | Average Velocity |
|---------------------|-----------------|-------------|----------------------|-------------------------|
| 1 | | | | |
| 2 | | | | |
| 3 | | | | |