

# Experiment 1: Introductory Experiments

## Density of Matter

The density of a material is an intrinsic quantity given by  $\rho = M/V$ , where  $M$  is the mass of the material and  $V$  is the volume of the material. In this exercise you will use vernier calipers and the balances

There are several questions that you should answer in your lab write-up:

1. Does Hooke's Law depend on the spring being used?
2. Does Hooke's Law hold for very large forces?

### Tips To Write Laboratory Reports

The last part of this laboratory exercise will actually be done on your own. Since everyone is required to