

## Prelab 5

Set up a simulation on Interactive Physics in which you have a frictionless plane with a block starting with an initial velocity of 0 m/s and a force exerted on the block parallel to the plane. You may choose the mass of the block and the force exerted on the block. However, be aware that you will have to vary the mass of the block several times in the course of the pre-lab.

- a) Make a graph of the acceleration of the block vs. the mass of the block. Be certain to turn in a data table with the graph and a discussion of the simulations that you performed.
- b) Discuss the relationship of the acceleration of the block with mass.