Prelab Questions

These questions need to be completed before entering the lab. Show all workings. Attach this sheet to your lab book.

Prelab 1

A 500 kg car is at rest at the top of a 50.0 m high hill. Calculate the energy of the car at the top of the hill.

Prelab 2

The car rolls to the bottom of the hill. At the bottom of the hill, the car has a speed of 27.8 m/s. Calculate the energy of the car at the bottom of the hill. (Assume the bottom of the hill has a height of 0 m.)

Prelab 3

Calculate the work done by friction on the car as it rolled down the hill.