Rocket Peak Altitude Prediction

The following pages are designed to offer a template for calculating the peak altitude of your rocket.

The calculations were taken from this page, and translated into a series of spreadsheet functions.

This can also be used to test different design parameters for a potential rocket build.

Rocket Body Radius (m) =	0.02
Rocket Body Cross sectional area (m) =	0.00125663706

Fill in the boxes below to have a peak altitude for your rocket be calculated.

Motor Average Thrust(N) =	2.66	this is determined from the thrust curve data
Rocket Mass(kg) =	0.05	this is a variable, depending on how massive you want your rocket to be
Rocket Body Cross Sectional Area(m^2) =	0.0013	A = πr^2; again depending on how big you want your rocket to be
Burntime(s) =	3.6	determined from the thrust curve also
Motor Mass (kg) =	0.08	These values are assumed
Motor Dry Mass (kg) =	0.055	The dry mass is a motor without fuel

Values in right column: 1000, 9.803921569

Rocket Peak Altitude Prediction = **125.0861048** meters

410.3874961 feet