

Physics 1114 - General Physics I

Lab 2 - 2012.06.13

Overview: We will study projectile motion, and use the results to predict the landing spot of a projectile.

Details: The plastic rocket kits that we have access to are propelled upwards after a plug in the air cylinder is forced upwards by the pressure buildup in the cylinder. There are several size plugs which allow different amounts of pressure to build up in the chamber before the rocket is propelled upwards. It is your job to determine the initial velocity of the rocket with each size plug.

Once the initial velocity of the rocket has been computed with each plug, you now have the ability to treat the rocket as a project and can attempt to predict, dependent upon the angle of inclination, how far the projectile will travel, both horizontally and vertically.