

## Analyzing the Motion of a Projectile

### Instructions:

1. Click on the image in Project Share to open the Projectile Motion simulation, or go to the link below.

[http://phet.colorado.edu/sims/projectile-motion/projectile-motion\\_en.html](http://phet.colorado.edu/sims/projectile-motion/projectile-motion_en.html)

2. Take some time to familiarize yourself with the different controls of the simulation before you begin the activity below.
3. Changing one variable at a time, analyze how each variable affects the motion of a projectile.
4. Write statements that describe and explain the motion of a projectile for each variable based on your observations.

<b>Variable</b>	<b>Predicted Effect of Variable on the Motion of a Projectile</b>
Angle of projectile from the horizontal	
Initial Speed (m/s)	
Mass (kg)	
Diameter (m)	