PHYSICS 12

MANIPULATING VARIABLES

1. What effect does the doubling of initial velocity have on the maximum height of a projectile?

2. What effect does the quadrupling of initial velocity have on the time needed to reach the maximum height?

3. How is the time spent in the air affected when the vertical displacement of a free-falling object is tripled?

4. How does final velocity of a projectile change if it maximum height is increased by a factor of 8?