6.3.20

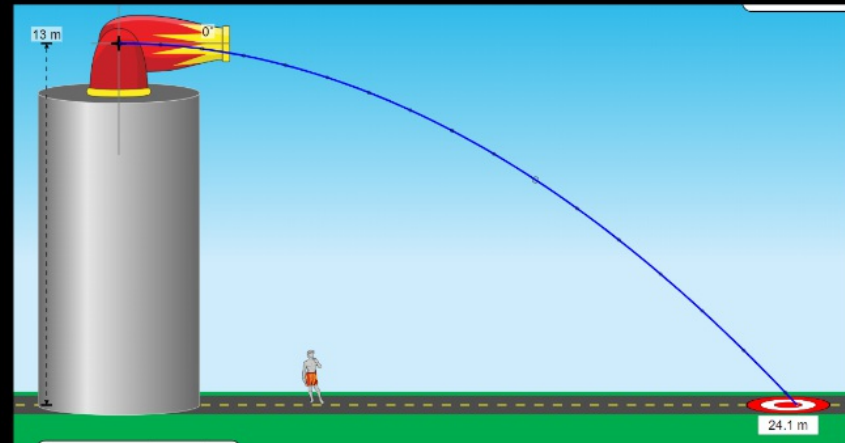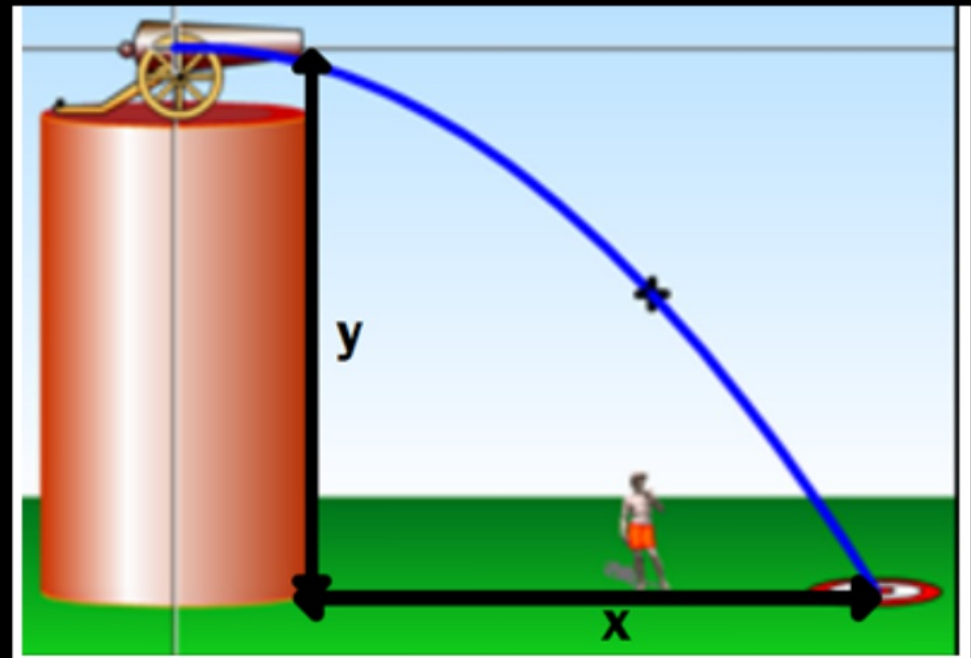## Projectiles: Equations

Today's Objectives:
- Learn the 2 distances of projectiles
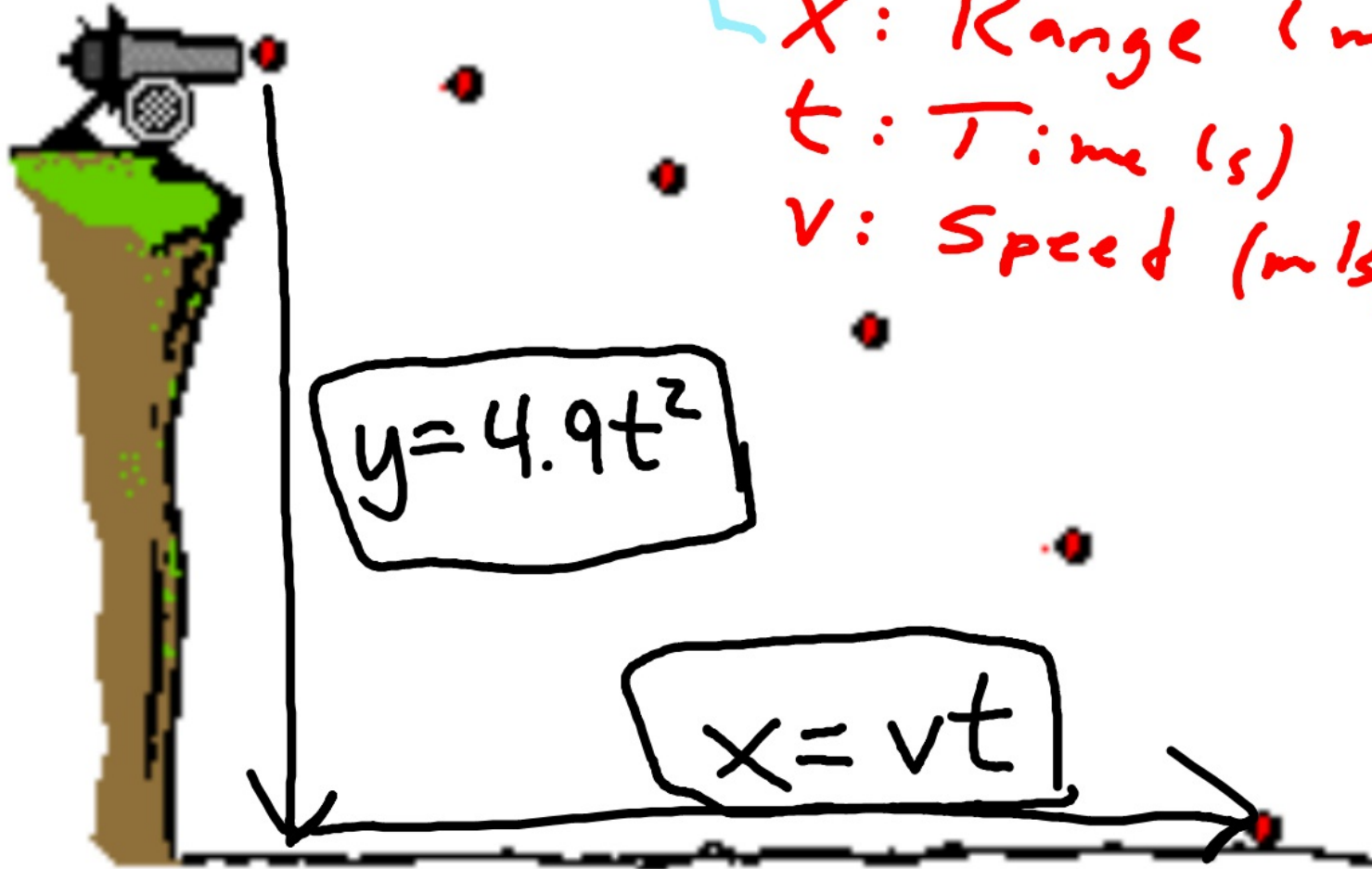- Use projectile equations

In a projectile problem, there are <u>2</u> distances to keep track of:

1. vertical distance, Y, height

2. horizontal distance, X, range

Projectile Equations

y : Height (m)
X : Range (m)
t : Time (s)
V : Speed (m/s)

$$y = 4.9t^2$$

$$x = vt$$