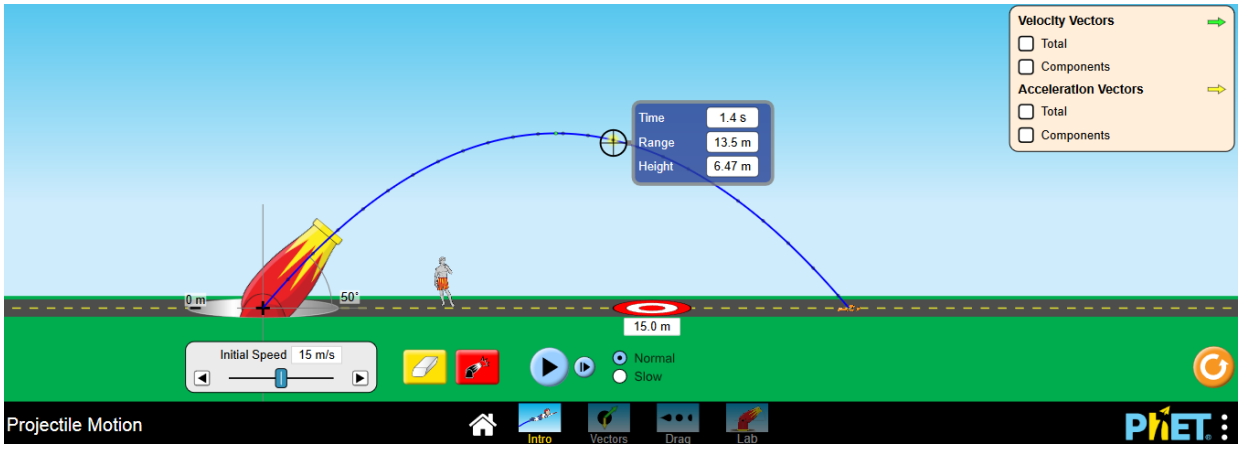
CW 1.7 PhET Projectiles Lab

For each problem calculate a) the range, b) the max height and c) the speed of impact. Then use the **PhET Projectile Simulation** to check your answer!



Horizontally Launched Projectiles

1. h = 12 m, v = 20 m/s, θ = 0°
2. h = 8 m, v = 30 m/s, θ = 0°
3. h = 15 m, v = 10 m/s, θ = 0°

	Range (m)	Max height (m)	Impact speed (m/s)
Q1			
Q2			
Q3			

Launching at an Angle

4. h = 0 m, v = 20 m/s, θ = 10°
5. h = 0 m, v = 20 m/s, θ = 45°
6. h = 0 m, v = 20 m/s, θ = 80°

	Range (m)	**Max height (m)**	**Impact speed (m/s)**
Q4			
Q5			
Q6			

Launching from a height and at an angle (advanced!)

7. h = 5 m, v = 20 m/s, θ = 30°
8. h = 10 m, v = 20 m/s, θ = 45°
9. h = 15 m, v = 20 m/s, θ = 60°

	Range (m)	**Max height (m)**	**Impact speed (m/s)**
Q7			
Q8			
Q9			