Today's Objectives:
• Learn the 2 distances of projectiles
• Use projectile equations
In a projectile problem, there are 2 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)

Equations:

- $y = 4.9t^2$
- $X = vt$