

Directions:

1. Choose two of the “Ball Launched At An Angle” videos.
2. Place a dot on the video every 2 frames.
3. Press the “✓” button to analyze the videos.
4. Examine the shape of the horizontal and vertical position vs time graphs.
5. Use the slope calculator on the horizontal and vertical velocity graphs to determine the horizontal and vertical acceleration.

Video #1: _____ degrees [slow / medium / fast]

	Horizontal	Vertical
Screenshot or Drawing of Trajectory:	Draw the shape of Position vs Time graph:	Draw the shape of Position vs Time graph:
	Use the slope calculator to determine the horizontal acceleration: _____ m/s ²	Use the slope calculator to determine the vertical acceleration: _____ m/s ²

Video #2: _____ degrees [slow / medium / fast]

	Horizontal	Vertical
Screenshot or Drawing of Trajectory:	Draw the shape of Position vs Time graph:	Draw the shape of Position vs Time graph:
	Use the slope calculator to determine the horizontal acceleration: _____ m/s ²	Use the slope calculator to determine the vertical acceleration: _____ m/s ²

Questions:

1. What do you notice about the horizontal acceleration in both videos?

2. What do you notice about the vertical acceleration in both videos?