

# Mechanics Lab Practical - Individual

Name: \_\_\_\_\_

## Your Task:

Using the video, calculate a variety of physics properties that incorporate our topics of Motion, Forces, Energy, and Momentum. You must calculate or measure all properties shown in green and at least 5 shown in yellow.

Video Links: [YouTube](#) or [Download](#)

Show your work in the space provided and record your final answers in the table below.

#	Property	Value (with Units)
Solve for <b>all</b> of these properties		
1	Mass	
2	Angle	
3	Distance	
4	Time	
5	Initial Velocity	
6	Acceleration	
7	Final Velocity	
Solve for <b>at least 5</b> of these properties		
8	Initial Potential Energy	
9	Final Kinetic Energy	
10	Initial Momentum	
11	Final Momentum	
12	Weight	
13	Net Force	
14	Perpendicular Force	
15	Parallel Force	

## Rubric:

<b>Work shown</b>	Missing		Inconsistent		Complete	
	0		1		2	
<b>Units included</b>	Missing		Inconsistent		Complete	
	0		1		2	
<b>Properties Calculated Correctly</b>	7 or less	8	9	10	11	12+
	1	2	3	4	5	6

## Work Space:

Show your work and calculations in the space below...