## **Worksheet 3: 1D Kinematics (Part 2: Air Track)**

Name:			Due September 25, 2024  Pencil only: use of Pen is forbidden.		
Measurements & Calculations			Calculations		
Parameter 1 ((S and S and S)	Unit	Measured Value		$c_1t^2 + c_2t + c_3t + c_5$ $v = c_4t + c_5$	
d (air track "foot to foot")		±	Parameter	Unit	Result
h (height of wood block)		±	$c_1$		±
Video Frame $\Delta t$		±	$c_4$		±
Video Frame Rate		±	a from position plot		±
Angle of Inclination ( $\theta$ )			a from velocity plot		±
Expected Acceleration $(g\sin\theta)$		±		L	
Discuss: Discuss the quality and level of a	agreeme	ent of your three accele	eration values.		