



OBJECTIVES	STANDARDS
• Use balance of forces equation (sum of forces = ma) to derive the equation for terminal velocity. • Identify the independent variables involved in terminal velocity and describe their relationship to terminal velocity. • Use the derived equation to calculate the student's own predicted terminal velocity and then compare to actual wind speed recorded during flight. • Compare measured and predicted results and discuss reasons for error.	<u>Science:</u> HS-PS2-1 HS-PS2-2 <u>Math:</u> HSA-CED.A.1 HSA-CED.A.4 HSA-REI.A.1 HSA-REI.B.3 HSA-SSE.A.1 HSN-Q.A.1 HSN-Q.A.2 HSN-Q.A.3 HSS.IC.B.6 MP.1-8