

Deadlines for Eggstreme Project

Date	Requirements			Summary and Helpful Information
	Rubber band	Software Program	Self and Peer Evaluation	
	2, 4	3		Make your rubber band bungee and create your Excel file with the input fields listed in requirement #3
		4, 5, 6		Building on your Excel file, add the output fields list in requirements 4, 5, and 6. Check your numbers by using these temporary values: $g=10\text{m/s}^2$, $m = 0.25 \text{ kg}$, $r = 0.6 \text{ m}$, $k = 10 \text{ N/m}$, $s = 0.2 \text{ m}$, $h = 5\text{m}$, which should give your output fields these values $E_g = 12.5 \text{ J}$, $E_{\text{elastic}} = 12.5$, and $d = 1.58\text{m}$
	3	1, 2		You're basically redoing the spring lab with your rubber band bungee (except you are now stretching, rather than compressing the spring). In Excel, graph the force of the bungee cord versus how much it stretches (remember to put F on the vertical axis so that the slope = k, not 1/k). Then have Excel find the best fit line.
		7		In your Excel file add an output field for the length of rope needed and figure out what calculation needs to be done to find this. Using the above temporary values your length of rope calculator should show around $l = 2.62\text{m}$
				This is a final preparations day, to work out any kinks in your software or bungee. If you are done with everything, concentrate on making your software look as professional as possible so that I may use it as an example for future classes and the community (parents, teachers, engineers,
	1		1 & 2	Jump Day – you will be given the exact height of the jump spot and allowed to find the mass of your egg. Calculate and Prepare to Jump.