

BALLOON 'BIG BANG' LAB RUBRIC

Student Name: _____

CATEGORY	10	8	6	4
Classroom conduct/ groupwork	Cooperatively worked w/partner in a focused manner to complete lab. Sought clarification through careful reading, followed by appropriate questions.	Worked cooperatively with partner but did not complete equal amount of work. Asked a few questions w/out reading. Generally stayed on task.	Contributed minimally to lab exercises (passive observer riding on coattails). Commonly asked questions for clarification w/out 1 st reading the lab. Commonly off task.	Was confrontational w/partner or did not participate. Majority of time spent on tasks other than the lab.
Graph	Clean, easy-to-read, complete table presented with appropriate labels for rows and columns. Calculations made correctly.	Fairly clean, relatively easy-to-read, mostly complete table presented with appropriate labels for rows and columns. Most calculations correct.	Basic data presented, lacking neatness/clarity. Mistakes frequently made on calculations.	Table missing or largely incomplete.
Graph	Axes are clearly labeled and increments are appropriate. Data points are correctly plotted and a best-fit line is correctly drawn. Graph paper is used.	Few missing labels or incorrect data points. Data increments generally make good sense. Best-fit line may be incorrect. Graph paper used.	Several missing labels, many incorrect data points, or incorrect increments. Graph is sloppy or graph paper is not used.	No graph was completed or a very poor graph was drawn, not on graph paper, and labels/data/best-fit line are missing.
Analytical questions	Thorough and correct answers are given for all questions.	Relatively thorough and generally correct answers provided to majority of questions.	Piecemeal or incorrect answers given to several questions.	Answers do not address questions or were not completed.

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Letter	B	C	D	E	F	G	H	I
First measurement (mm)	35mm	78mm	76mm	81mm	145mm	115mm	189mm	231mm
10 yr. measurement (mm)	65mm	159mm	165mm	220mm	225mm	441mm	442mm	334mm
Distance increase (mm)	30mm	81mm	89mm	139mm	80mm	326mm	253mm	103mm
Predicted distance after 20 yrs.	95mm	240mm	254mm	339mm	305mm	767mm	695mm	437mm
20 yrs measurement (mm)	160mm	280mm	470mm	335mm	311mm	410mm	69mm	397mm
% Error	4.25%	2	10.8	1.2	.3	17.85	313	2
Rate of increase -	3	8.1	8.9	13.9	8	32.6	253	10.3



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