



## BALLOON 'BIG BANG' LAB RUBRIC

Student Name:

CATEGORY	10	8	6	4
Classroom conduct/ teamwork	Cooperatively worked wiparmer in a focused manner to complete lab Sought clarification through careful reading followed by appropriate questions.	with partner but did not complete equal amount of work. Asked a few questions w/out reading.	Contributed minimally to lab exercises (passive observer riding on coattails). Commonly asked questions for clarification w/out 1 <sup>st</sup> reading the lab.  Commonly off task.	Was confrontational w/partner or did not participate. Majority of time spent on tasks other than the lab.
Table	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.		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.

38 Very clear presentation of clata 40 4 good analysis.

10. deviation 30 X100 = 2.5% Questions 1. Slope = This reprisents that the points on the balloon are balloon. I as you blow up the a. Yes it does. 3. Yes they would because the moon
A. The center of expansion than Mars.
A. The center of expansion would be at point 5. The center of exponsion howa for our universe would be wherever the Big Bang took place.