

## Rubric for Barbie

Report Component	Points (max 20)
<b>1. Introduction:</b> Explain the purpose of the activity in your own words.	/2
<b>2. Procedure:</b> Explain the procedure for collecting the data for the experiment Explain any difficulties the group encountered in collecting the data and how they dealt with these difficulties	/2
<b>3. Data and Graph</b> Include a completed data table Include a graph of the scatterplot and the line of best fit for the data. The axis should be labeled and have appropriate tick marks.	/3
<b>4. Initial analysis:</b> Explain what x represents and what y represents Explain if you think this is or is not a linear relationship and your reason for your decision	/2
<b>5. Equation of the line of best fit</b> Show all work for finding the equation of the line Explain the meaning of slope and the meaning of the y-intercept	/3
<b>6. Prediction</b> Show all work for finding the number of rubber bands needed to drop Barbie safely from 225 inches. Discuss whether you think this was a reasonable prediction	/2
<b>7. Test</b> Discuss the outcome of your final test Discuss what changes you would make to your data collection procedure and calculations to improve the outcome	/2
<b>8. Pictures/videos</b> Include pictures/videos of experimental materials, data gathering and final test	/2
<b>9. Conclusions</b> Explain what math you learned in the activity Discuss what particular problem solving methods you used to complete the activity Explain how this math can be connected to something outside the classroom	/2
<b>Total</b>	/20