# **Formative Data Analysis Rubric**

**Instructions to reviewer:** Use these criteria to rate the poster presentation on a scale of 1-5 (1=strongly disagree; 3=neutral; 5=strongly agree).

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| Appearance | |
| 1. Data collected from video into Table 1. | 1 2 3 4 5 |
| 2. Ordered pairs created for all three bounces. | 1 2 3 4 5 |
| 3. A freehand graph showing all three bounces. | 1 2 3 4 5 |
| 4. Axis, vertex, and x intercepts are labeled, and the regression lines are written in the given space. | 1 2 3 4 5 |
| Analysis | |
| 5. The choice of base and ball is justified. | 1 2 3 4 5 |
| 6. Position, velocity, and acceleration at vertex and x-intercepts are stated. | 1 2 3 4 5 |
| 7. Energies are classified as kinetic energy and potential energy, and energy conservation is discussed. | 1 2 3 4 5 |
| 8. Domain and range of the graphs are discussed. | 1 2 3 4 5 |
| 9. The quadratic equations are written as a piecewise function for the whole domain. | 1 2 3 4 5 |
| 10. Acceleration of the ball is identified as “acceleration due to gravity” (9.8 m/sec^2). | 1 2 3 4 5 |