

Grade 11 Performance Task

Quantitative Evidence Portfolio

All cards are original fictional paper models. This task does not direct laboratory work, collection, device operation, intervention, recommendation, or a real-world decision. Total points: 16.

Card R. A fictional model reports 12.1, 12.4, and 12.2 units under one labeled condition. **Card S.** A second fictional card reports a 0.30-unit range and proposes a mechanism without a control.

1. Calculate the mean and range for Card R. State units.

[3 pts]

2. Explain why the mean is not a complete description of Card R. Name one uncertainty or boundary.

[3 pts]

3. Write a bounded question that Cards R and S could address. Name a comparison and one excluded claim.

[3 pts]

4. Critique S's mechanism proposal using a control, an alternative explanation, and a boundary.

[3 pts]

5. Write a claim-evidence-reasoning conclusion using the numerical result. Include a limitation and explicitly refuse a real-world recommendation. [4 pts]
