

Molecular-Model Predictions and Structure-Property Data

g12_u05_w17

Original fictional prediction/observation cards only. No synthesis, device, product, or real-world decision is requested.

1. Define a model prediction.

2. Define an observation card.

3. Why may prediction and observation differ?

4. Define residual.

5. Why is a small residual not complete proof?

6. What does a large residual invite a reader to check?

7. Name one model assumption.

8. Name one observation uncertainty.

9. Why must units match?

10. Define validation in this paper-data context.

11. Card P is higher than Card O. What is directly supported?

12. What causal claim is not supported?

13. Why can two models fit one observation?

14. Name one additional fictional comparison card.

15. Why should uncertainty be visible?

16. Give one non-color-only graph feature.

17. State one prohibited product claim.

18. Compare model fit with recommendation.

19. Write a cautious comparison.

20. Write a two-sentence bounded conclusion.
