

Capstone Question and Bounded Data Plan

g12_u09_w33

Use original fictional paper planning cards. Do not collect data, conduct experiments, operate devices, intervene, or make real-world decisions.

Planning card A: “How does chemistry affect our world?” **Card B:** “In a fictional model, how does labeled condition X relate to labeled response Y within a stated boundary?”

1. Why is Card A too broad for a bounded evidence claim?

2. Identify the comparison in Card B.

3. Identify Card B’s response label.

4. What is a boundary in a question?

5. Name one boundary Card B should specify.

6. What is a variable in a model?

7. Why must a question distinguish observation from explanation?

8. What evidence type could a fictional paper card supply?

9. What is a control comparison?

10. Why is a control not proof of every causal claim?

11. Write a narrower version of Card A using a fictional model.

12. State one claim the narrower question could support.

13. State one claim it could not support.

14. Name one uncertainty to preserve in a data plan.

15. Why should a plan name units and time?

16. What does a missing-data label communicate?

17. Write one question about fairness or affected groups.

18. Write one question about system boundaries.

19. Draft a one-sentence fictional evidence plan, not a procedure.

20. Write a two-sentence conclusion limit for the plan.
