CHOOSE A TESTABLE QUESTION

QUESTION. PREDICT. PLAN.

SCIENTIST _____ DATE _____

A FAIR PROJECT CHANGES ONE THING

Keep the rest as similar as practical, measure the result and repeat the test before making a claim.

1 WHAT DO I NOTICE OR WONDER?

Start with a real observation, problem or surprising result.

_____

_____

_____

2 MY TESTABLE QUESTION

Use: How does changing _____ affect _____?

_____

_____

_____

3 MY PREDICTION AND REASON

I predict that _____

_____

because _____

QUICK PROJECT CHECK

- [ ] I can measure the result.
- [ ] I can repeat the test.
- [ ] An adult approved the materials.

RUN A FAIR TEST

CHANGE ONE THING. RECORD EVERY TRIAL.

SCIENTIST _____ PROJECT _____

4 WHAT I WILL CHANGE

This is the independent variable.

5 WHAT I WILL MEASURE

This is the dependent variable.

6 WHAT I WILL KEEP THE SAME

List the materials, amounts, time, distance and testing method that should stay consistent.

7. RECORD THE EVIDENCE

Use numbers when possible. Add specific observations instead of writing only worked or did not work.

TRIAL	WHAT I CHANGED	WHAT STAYED SAME	RESULT	NOTES
1				
2				
3				
4				
5				

BEFORE EACH TRIAL

Check the setup, make a prediction, test the same way and record the result before changing anything else.

EXPLAIN WHAT THE EVIDENCE SHOWS

NOTICE. CLAIM. SHARE.

SCIENTIST _____ PROJECT _____

8 THE PATTERN I NOTICED

Which result happened most often? Which trial was unusual? Use numbers or specific observations.

9 MY EVIDENCE-BASED CONCLUSION

Answer the project question. Then name the evidence that supports your answer.

10 WHAT I WOULD IMPROVE

Name one useful change to the method or one new question worth testing.

SCIENCE FAIR DISPLAY CHECKLIST

- [ ] A clear project question
- [ ] A prediction with a reason
- [ ] Materials and numbered procedure
- [ ] Variables and what stayed the same
- [ ] Results from repeated trials
- [ ] A graph, table or labeled evidence
- [ ] A conclusion that answers the question
- [ ] One limitation or next test