

Science Fair Project Planner

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Use these pages to plan an original, safe investigation. Record your own data; do not invent results.

1. Choose a testable project

1. Which paper towel absorbs the most water?
2. Does salt change the rate at which ice melts?
3. How does ramp height affect toy car travel distance?
4. Which type of soil holds the most water?
5. How does light color affect plant growth?
6. Does water pH affect seed germination?

2. Your research question

My question: _____

Why I chose it: _____

3. Hypothesis

If _____, then _____ because
_____.

4. Variables

Independent variable (what I change):

Dependent variable (what I measure):

Controlled variables (what stays the same):

Experiment Planning Worksheet

Student: _____ Grade: _____ Date: _____

Materials and safety

1. _____
2. _____
3. _____
4. _____
5. _____

Teacher/adult approval or special safety requirements: _____

Procedure - use numbered steps

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____

Fair test checklist

- ☐ I change only the variable I am testing.
- ☐ I measure results using the same units and method.
- ☐ I use repeated trials or replicate samples.
- ☐ I follow school safety rules and obtain approval if required.

Observation and Results Sheet

Project: _____

Measurement and units: _____

Record actual observations

Trial	Condition A	Condition B	Condition C
1			
2			
3			
4			
5			
6			
Average			

Daily observations (if your project runs for several days)

Day / Date	What I observed	Measurements / Notes

Do not enter predicted values as observations. Include units and any unexpected results.

Graph, Conclusion and Display Board

Graph planner

Graph title: _____

X-axis (independent variable):

Y-axis (dependent variable and units):

Conclusion template

My question was _____.

My hypothesis predicted _____.

The measurements showed _____.

These findings [supported / did not support] my hypothesis because _____.

A limitation of my experiment was _____.

If I repeated it, I would improve _____.

Science fair display checklist

- ☐ Research question and hypothesis
- ☐ Background research and references
- ☐ Materials, procedure and safety
- ☐ Variables and repeated trials
- ☐ Data table and labeled graph
- ☐ Results, conclusion and limitations

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