

Scientific Method Worksheet

Name:

Date:

YOUR QUESTION

BACKGROUND RESEARCH REFERENCES

YOUR HYPOTHESIS

EXPERIMENTAL DESIGN: VARIABLES

Independent Variable:

Dependent Variable(s):

**EXPERIMENTAL
DESIGN:
PROCEDURE**

**DATA TO BE
COLLECTED**

**METHODS TO
BE USED TO
ANALYZE
SIGNIFICANCE
OF DATA**

Yes: then move on

No: Modify your procedure...back to the drawing board!

**DID YOUR
PROCEDURE
WORK?**

Look for patterns and correlations. Include sources of error and how to reduce their effects in future designs. State whether or not your hypothesis was supported.

**ANALYZE DATA
AND DRAW
CONCLUSIONS:**

If partially supported revise hypothesis.
If no, create new hypothesis...back to the drawing board!

HYPOTHESIS SUPPORTED?

What is the significance of your results? How can your results be applied in the real world? Who would benefit from these results? What new questions have arisen from this research?

REPORT YOUR RESULTS
