

# FORGED IN SCIENCE

Welcome to Mr. Driscoll's reality show! You have all been carefully selected from the original applicants as having the greatest potential in the field of science. Now it is time for you to realize your dreams of fame by designing a scientific experiment. Your experiment should follow the scientific method and be something that could be done using equipment you would find in most labs. Remember: you are not doing the experiment yet; you are just designing one.

Your proposal should include the following:

1) Pose a Testable Question. /2

First thing is to determine what question your experiment will answer. There are lots of questions just begging to be asked!

2) Conduct Background Research. /6

The background research will help you make a reasonable prediction. Not all research has to be scientific journal articles. Draw upon your real life experience, however you should include at least one source of information in your proposal. I would like to see five bits of information you used to determine what your hypothesis would be.

3) State your Hypothesis. /2

A hypothesis is basically your prediction as to what you feel will happen. It's not a guess because you are basing it on your background research. A very good way to ensure a quality hypothesis is the "If...then" statement. Ex: ***If*** I work hard, ***then*** I will be successful"

4) Design Experiment. /10

This is where you really show off your science skills. For this activity, I want you to describe what you would do in your experiment. You will need to create a "materials" list for any equipment you may need to use. I also want you to identify the independent and dependent variables.

