

Freshman Science Project - Part Four

Materials - Procedure - Safety

Name _____ Block _____

The fourth step in your Freshman Experimental Design Project is to plan your experiment. You will be running your experiment during the first two weeks of November. Now, you need to plan in detail what exactly you will do when you run your experiment!

Materials List:

This list should include a detailed list of all the equipment and materials you need. You must be specific enough so that someone could exactly duplicate your experiment. Use brand names and/or numbers for every single item on your list! You must do a numbered list with the details listed at the end of each item.

Example: (1) Beaker: plastic, 600 mL, Nalgene®

Procedures:

Your procedures list must have at least 10 distinct steps. The procedure must be detailed enough that another experimenter could exactly duplicate your experiment. At least 5 of your steps must have numbers/amounts and/or brand names in them. Your procedure should include the correct sequence of all necessary steps.

Safety Precautions:

You must list all necessary Safety Precautions. First state which safety rules on your Jefferson City School District Safety Contract apply to this experiment. List the rules by number from the safety contract, give a short description of the rule, and give a reason why each rule applies to your experiment. **NOTE: See your Experimental Design Reference for details.**

SCORING GUIDE:

Materials

Every necessary item is listed.	0	1	2	3	_____
Every item has a number and/or Brand Name.	0	1	2	3	_____

Procedure

At least 10 steps.	0	1	2	3	x 2	_____
At least 5 have numbers and/or brand names.	0	1	2	3		_____
At least 8 trials included.	0	1	2	3		_____
All necessary steps in order.	0	1	2	3	x 2	_____

Safety Procedures

Each applicable rule is listed.	0	1	2	3	_____
Each rule has a short description.	0	1	2	3	_____
Each rule has a reason.	0	1	2	3	_____

Mechanics

Typed or written neatly in <u>blue or black ink only</u>	0	1	2	3	_____
On one side only of <u>plain white paper</u>	0	1	2	3	_____
Organization & Mechanics	0	1	2	3	_____
Creative and Age Appropriate	0	1	2	3	_____
TOTAL					_____