

Procedure Evaluation

Name _____

Grade _____

Project Title _____

Date _____

_____ Objective/Question (5 Points)

This is a two-to-three sentence statement of what you will be doing for your project. Sample: Soil nutrients are affected by both living and non living things. The purpose of this experiment is to see if earthworms have an effect on nutrient levels in the soil.

_____ Hypothesis (5 Points)

Your hypothesis is what you will be testing. This should be an if/then statement either written or implied. If a plant is placed in soil with earthworms, then it will grow better than a plant in soil without earthworms.

_____ Variables (10 Points)

In a project you want to control all the variables of an experiment except for one, (what you are testing for). There are three types of variables that need to be listed:

- a) Control Variables. These are variables that are not changing from your control group to your manipulated group.
- b) Manipulated Variable. This is the one variable that you are testing for that is changed between the two groups.
- c) Responding Variable. This is what you will be looking to happen due to your experiment.

_____ Materials (5 Points)

This is a detailed list of what you will need in order to perform your experiment. This should include lengths of material and amounts and volumes needed.

_____ Safety (5 Points)

Safety is a large concern when carrying out any scientific project. All safety concerns should be listed for the person doing the project to understand and follow.

_____ Procedures (20 Points)

This is a step-by-step instruction of how you are going to perform your experiment. If you are building something for your project, drawings of the object should be included. You should also list primary information that will be recorded and how it is to be recorded. Please remember that all measurements taken should be in SI Units. (Meters, Liters, Grams, Celsius, ECT.)

_____ Log book plan (5 Points)

You will need a plan of how to organize your logbook. When you are writing down information, you might want to consider using data charts that help organize information. When you are recording information, it is just important to observe and record information that cannot be measured such as how a plant looks as it is growing. Is it a nice green color or is it yellowing? Are the edges of the leaves brown? Is the plant growing so fast that the stalk cannot hold the weight of the plant? This information is just as useful as how tall the plant has grown from day to day, how many leaves it has, and the size of those leaves

_____ /55 Total Points