Science Fair Research Plan Attachment

Students need to answer the following sections for the Science Fair project. No further work can be done until this has been graded and returned. This is due September 18, 2015 and is worth 100 points. The teachers will grade these, make comments or suggestions where needed. The student MUST revise and return to the teacher if needed. It is to be typed, no handwriting.

**A. Purpose/Problem**

The problem is what question he/she is asking. The purpose is the question in a statement form. Usually one of these is the project title.

Example = What are the effects of different types of water on plant growth? (Problem) The effects of different types of water on plant growth. (Purpose)

**B. Hypothesis**

This is where he/she puts what she thinks will happen in her project. Measurable terms must be used. This needs to be very specific.

Example = I think that the plant given spring water will grow 2 inches. (use measurable terms)

**C. Procedure**

This is where he/she lists what she will do in numerical order. Start each step with a verb. Be very specific in what will be done and what will be used.

Example=
2. Dig a 2 inch hole in the center of the soil.
3. Place the plant (roots) in the hole.
Variables also need to be put in this section to be checked.

Independent variables = what she changes
    Example = types of water

Dependent variables = what she thinks could happen because of what she changed
    Example = color change, leaves fall off, etc.

Constant variables = what stays the same
    Example = type of plant, amount of water, type of container, type and amount of soil, environment

Control Group = what you are comparing it to
    Example = plant being watered tap water.

Remember that not all projects will have a control group and not all engineering projects will have variables.

D.Bibliography

You need to list of 3 to 5 sources that will be used to do research. They can not all be the same. Magazines, websites, books, etc. Be sure to include title, author, publisher, date, web address if from internet. This will need to be in APA format.

A source cannot be where you got your topic idea from such as sciencebuddies.com.