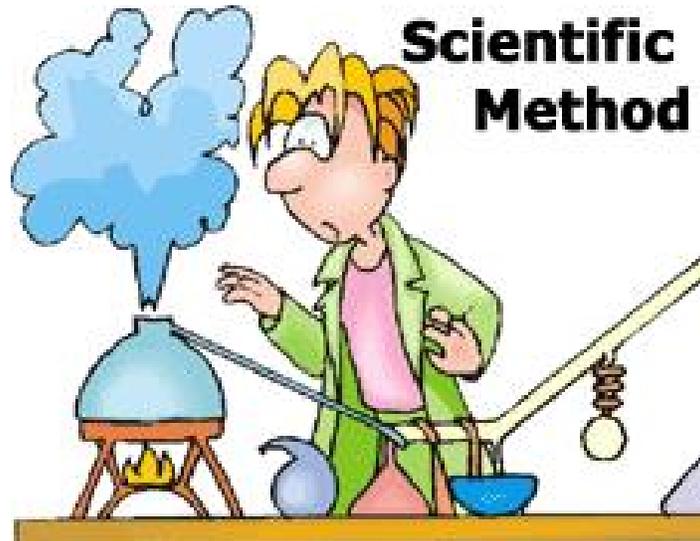


# The Great Earth Science Project:

## Demonstrating the Scientific Process



**Name:** \_\_\_\_\_

**Assignment:** Each student will be **required** to perform an independent science experiment--write a science report detailing the experiment and results OR research project about a relevant science topic, create a presentation board describing your project and display your project at the academic fair at the end of the semester. Students will be allowed to work in pairs. If you choose this option, consider who you are working with carefully! this is a long term project.

**Requirements:** A successful project will require the following:

1. Completion of an approved science project.
2. Typed scientific report of the experiment.
3. Poster presentation of project.
4. Meet all deadlines for work.
5. Demonstrate responsible work habits during the course of your experiment.

**Possible Projects:** Coming up with a project idea is probably the hardest part of this assignment. Here are some considerations:

1. An experiment must have a clearly identified control and variable.
  - a. You must have an adequate sample size if applicable.
  - b. You must collect and analyze quantitative data.
2. A research project must inform people about a relevant earth science topic.
  - a. It can present two sides of an issue or inform people of an issue.
3. You must complete your project in the time provided.
4. You may need to purchase items that we do not already have consider this before settling on a project.
5. Your experiment must be done in school or you must have visual proof that the experiment was done. Acceptable proof includes dated pictures taken during different points of project or video of you conducting the experiment. You must be seen in the picture/video.
6. You are responsible for maintaining your project. If something is neglected and you miss measurements; you must start again. It will also negatively impact your grade.

**Research and Brainstorm:** The absolute hardest part of this project is picking a project. So during the next week you should spend time researching different project ideas or brainstorm something that you are specifically interested in studying. For example, if you like the weather, think of some aspect that you can track/test. If you find a factor that you can manipulate then you have the beginnings of a project.

Check the internet for possible ideas. Also, we have books and files containing many great project ideas. Finally, many of the labs that we have done (or will do) can be extended into very interesting experiments.

One last consideration! there cannot be more than two of the same projects going on. So, it will be to your benefit to get your idea in quickly because ALL earth science students will be required to complete this project so ideas will get used up fast. There will be a list posted on the board.

