The Scientific Method -

1. Ask a Question
2. Do background research
3. Construct a Hypothesis
4. Test Hypothesis (do experiments)
5. Analyze Data from experiments
6. Draw Conclusions (Supports Hypothesis, Does not support Hypothesis)
7. Report Results

Why do we use the Scientific Method?

Questions – This is where science begins! What kinds of things do we ask questions about?

Why do we want to Research our question before coming up with a Hypothesis?

 Using the internet correctly------

Constructing the Hypothesis:

1. A Hypothesis is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. How do we create a hypothesis?

Experiments are designed to specifically answer the Hypothesis. Define each of the important parts of a good experiment.

1. Variable
2. Dependent variable
3. Independent variable
4. Constant
5. Control

Example Experiment –

IV=

DV=

Constants=

Why will a good experiment only have 1 independent variable?

Why is it important to keep good records of your Experiment and what things should you keep track of?

Analyzing Results – Once your experiment is done you need to analyze all the data you collected.

What things do you need to consider when you are analyzing your data?

Next we need to use our Human ability to \_\_\_\_\_\_\_\_\_\_\_\_, to decide whether our experimental data supports our hypothesis or not. What is the next step?

 Hypothesis supported 🡪

 Hypothesis not supported 🡪

Finally we need to Report our Results. Who do we want to know about our experiment, why should we tell them and how would we go about letting them know?

1.

2.

3.

4.

5.