Scientific Method- a series of steps that scientists use when conducting an

investigation

Hypothesis- a possible answer or prediction that can be tested

Steps for a Scientific Investigation

1. Observation
2. Ask a Question/ State a Purpose
3. Research
4. Identify the variable
   1. Independent variable- (What will you change?)
   2. Dependent variable- (What will you measure?)
   3. Constant – (What remains the same?)
   4. Control Group- (Which group has no change?)
5. State your hypothesis
6. Design an Experiment
   1. Materials
   2. Procedures
   3. Collect and organize data (at least 3 trials)
7. Analyze the Data
   1. Interpret and explain your results
   2. Discuss any errors
8. Make/Draw a Conclusion
   1. Summarize experiment
   2. Refer to your hypothesis (was it right or wrong)
   3. Extensions
9. Make Inference/ Share Results

Data-are information that is gathered during an investigation