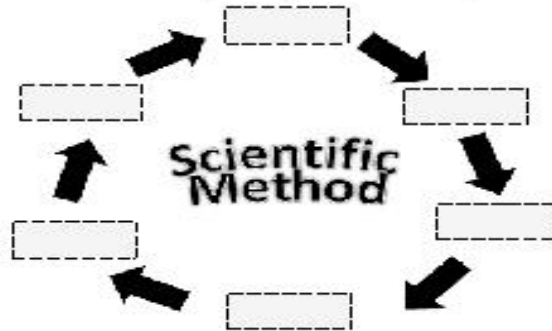


## Scientific Method

The Scientific Method is a process scientists use to ask questions and find answers by collecting and analyzing evidence.

Draw the graphic organizer below in your notebook.

Put out the terms and descriptions, then sort and glue them to the diagram.



|            |  |   |  |
|------------|--|---|--|
| Conclusion | If ___ then ___ because ___                              | Accurate & reliable internet sites (.edu, .gov, .org) | Independent variable – factor that is purposely changed                          |
| Hypothesis | Newspapers, magazines, library books                     | Variables (IV, DV, Control)                           | Dependent variable – factor that changes in response to the independent variable |
| Data       | Needs to be testable                                     | Record observations                                   | Control – only 1 variable is changed at a time                                   |
| Experiment | Does the data support or fail to support the hypothesis? | Diagrams, graphs, data tables, models                 |  |
| Research   | Communicate using a scientific explanation               | Repeated trials                                       |  |
| Problem    |  |   |  |

After completing the activity, answer these questions in your notebook.

1. Create a problem and describe how the Scientific Method can be used to help solve it.
2. Can you think of a branch of science that might not use the Scientific Method?