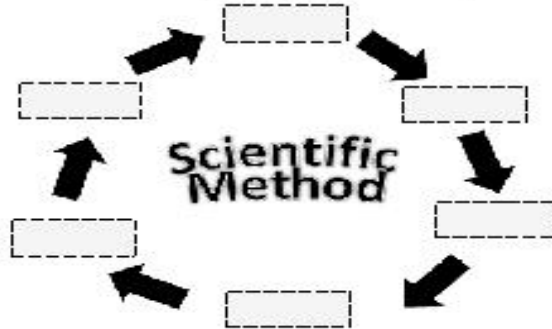


## Scientific Method

*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.*

*Cut 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?