

Vocabulary for Scientific Method

1. **Problem** – a question stating what the scientist is trying to find out.
2. **Hypothesis** – educated guess or prediction of what you think the outcome will be.
3. **Procedure** – a list of steps telling what to do for the experiment.
4. **Manipulated variable or independent variable** – the one thing the scientist changes or tests.
5. **Responding or dependent variable** – what changes because of what the scientist did; the results or data.
6. **Controlled variables or constants** – all those things that are kept the same.
7. **Data** – measurements and observations made during the experiment.
8. **Observation** – those things observed through the senses.
9. **Conclusion** – statement that sums up what you learn from an experiment.
10. **Control (control group)**: A standard of comparison for checking or verifying the results of an experiment.
11. **Controlled experiment**: An experiment that tests only one factor at a time by using a comparison of a control group and an experimental group.