

# Notes for Scientific Method

- **Scientific method – set of steps used to gather evidence.**
- **1. – Observation**
- **2. – Hypothesis (If... then.... Statement – testable)**
- **3. – Controlled experiment**
  - **Test one variable at a time**
  - **Control – Experimental group where no variable is changed – use for comparison**
  - **Independent variable – one being tested**
  - **Dependent variable – one being measured**
- **4. – Collect and analyze data**
- **5. – Draw Conclusion – revise, reject, or support**

- Supported – retest – share – others retest
- Scientific Theory – explains how things work and is supported by a large body of evidence.
- Scientific Law – Predicts what may happen but doesn't explain why anything happens.