

NOTES 8.6.14
SCIENTIFIC METHOD
Make a foldable (see example in folder)

SCIENTIFIC METHOD – a way to organize science stuff

PURPOSE – a question. What do you want to learn? General, big question.

RESEARCH – background info, find out what has already been researched.
Why do work that has already been done?!?!?

HYPOTHESIS – Educated prediction of an answer to your question.

This is how you write it:

If I _____ (do something) _____ , then . . . (this will occur).

EXPERIMENT – fun time! Design a test to test your hypothesis. Include the following:

Equipment – what do I need??? (safety goggles, beakers, fire, acid, gummi bears, etc)

Steps – how EXACTLY am I testing this hypothesis?

Control – the variable that DOES NOT change, the “normal”, the variable you will compare against.

Independent Variable (IV) – the ONE part of the experiment that you change or manipulate; the variable you vary.

Dependent Variable (DV) – the variable that changes because of the IV; it's what happens.

ANALYSIS – data collection and organization; recording your observations.

CONCLUSION – review the data, see what it tells you, come up with a specific brief explanation.

COMMUNICATE – present your findings to others: poster, paper, video, blah blah.