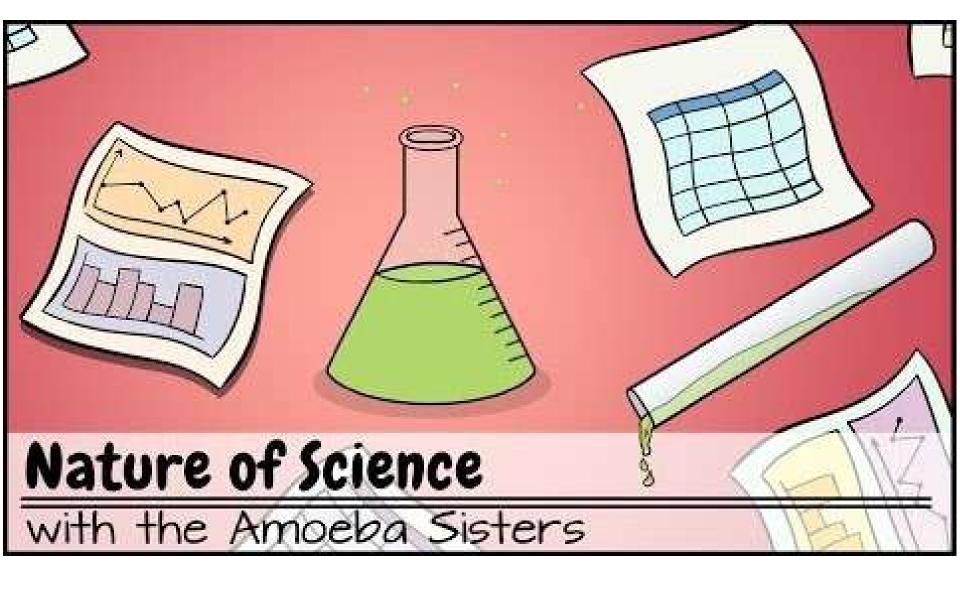
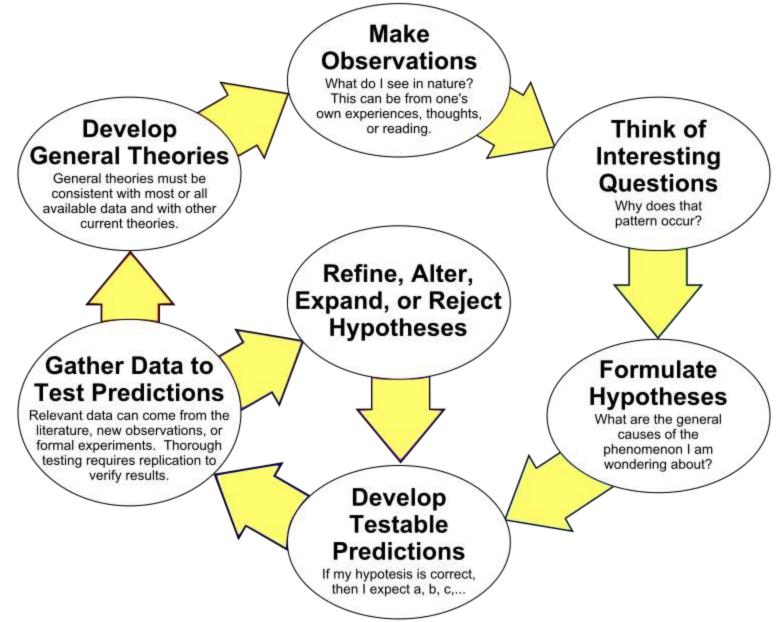
NB Set-Up 8/19 Scientific Method as an 💍 **Scientific Process Ongoing Process** 8

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Scientific Process

EQ: Why is the scientific method a process?

Scientific Process/Method (7 steps)

- 1. Make an observation
- 2. Create a question based on the observation
- Then form an testable explanation to the question, known as a hypothesis, using "If..., Then..., because..."
- 4. <u>Design</u> an experiment to test the hypothesis. Determine variables, control, constants, and write procedures

Any <u>scientific experiment</u> or plan must have the ability to be <u>duplicated</u> for other scientist to <u>replicate</u> and get the same <u>results</u>.

- 5. <u>Test</u> the hypothesis through experimentation Record qualitative and quantitative data Create a Graph or a visual model
- 6. Make a <u>conclusion</u> about findings Does your evidence <u>support</u> or <u>reject</u> your hypothesis. Analyze data and explain with reasoning
- 7. Communicate the conclusion with other scientists.

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READ:

Todays scientists are connected to scientists of the past because new scientific ideas are built upon the foundations of earlier work.

Some scientific ideas are very old but still applicable today.

When many lines of research support a particular hypothesis, the hypothesis becomes a scientific theory.

Summary

(4+ complete sentences answering the EQ)

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