

The Scientific Method

♪ A Way to Solve a Problem ♪

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What is the Scientific Method?



- It is the steps someone takes to identify a question, develop a hypothesis, design and carry out steps or procedures to test the hypothesis, and document observations and findings to share with someone else.
- In other words, it's a way to solve a problem.

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Scientists have to take the time to think logically when they are investigating a question or problem.



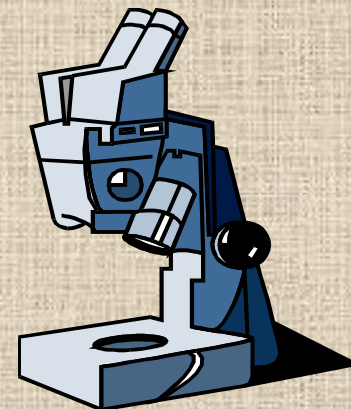
- They break things down into many steps that make sense.



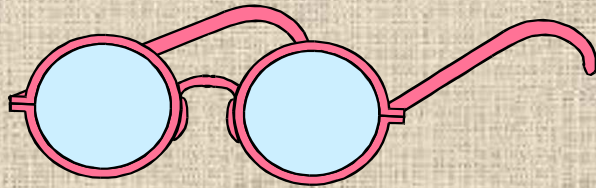
Scientists develop a question, gather information and form an hypothesis.



The next step scientists take is to create and conduct an experiment to test their hypothesis.



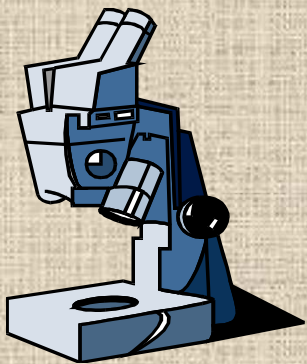
A key to experiments is observing what happens and writing it down.



- Gathering information or data and documenting it so it is **readable** and **makes sense** to others is really important.



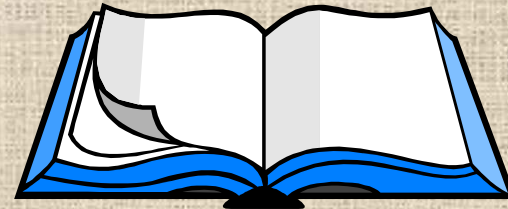
Once a scientist completes an experiment, they often repeat it to see if they get the same findings and results.



- This is really what we call verification, or checking things out to make sure everything was valid and will happen again and again.



Scientists share their experiments and findings with others.



- Because they share their experiments and findings, scientists can learn from each other and often use someone else's experiences to help them with what they are studying or doing.



The steps of the Scientific Method are:

- Question
- Research
- Hypothesis
- Procedure/Method
- Data
- Observations
- Conclusion

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