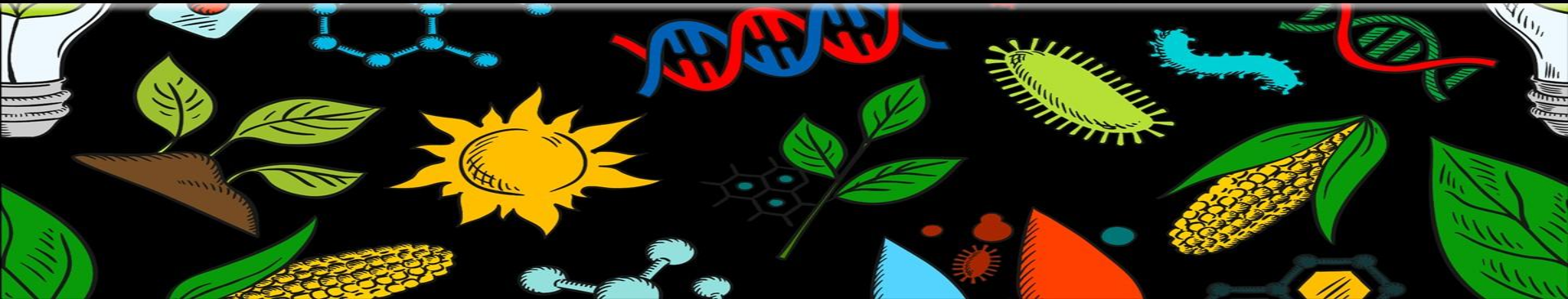
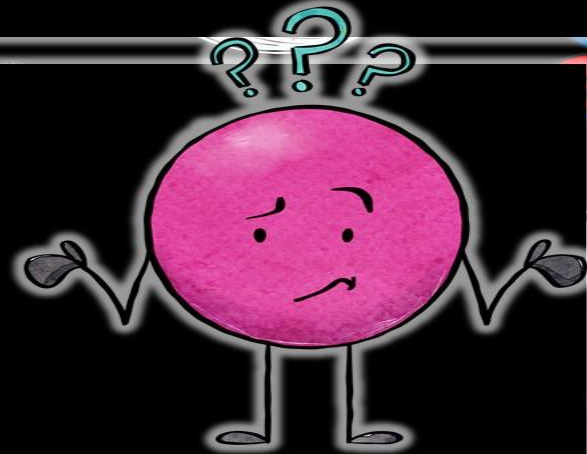


THE SCIENTIFIC METHOD



THE SCIENTIFIC METHOD

QUESTION:



The process starts when you ask a question about something you observe.

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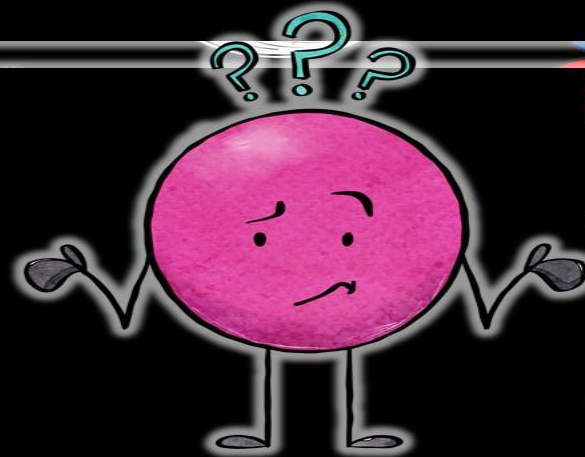
QUESTION:

Why?

How?

When?

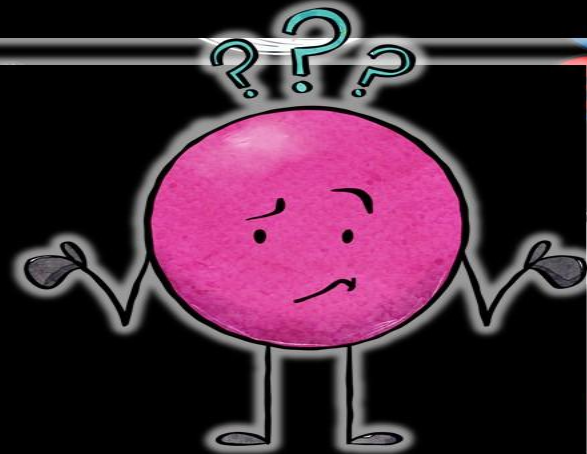
What?



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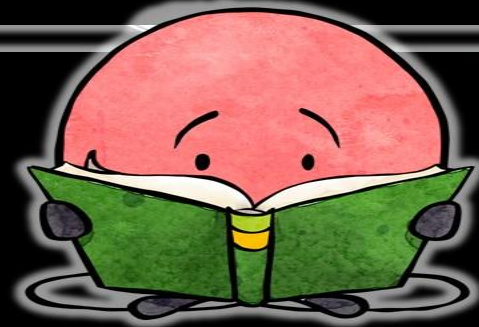
QUESTION:

It needs to be testable!



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RESEARCH:

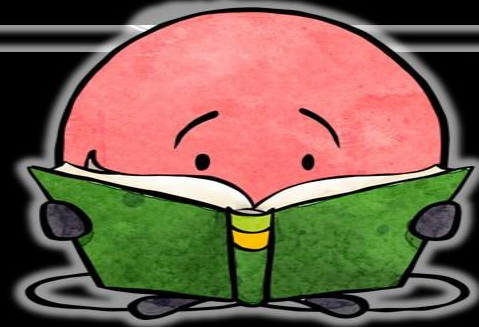


Don't start from nothing.

Research what is already known
about your question

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RESEARCH:

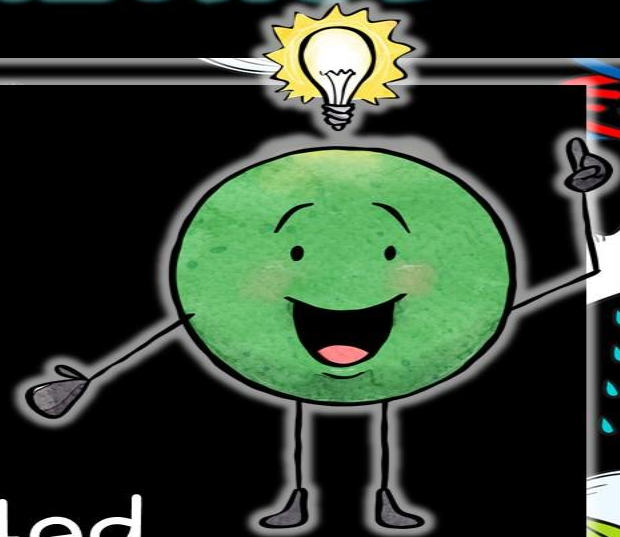


Learn from others who may have already conducted experiments. Your question may already be answered !

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HYPOTHESIS:

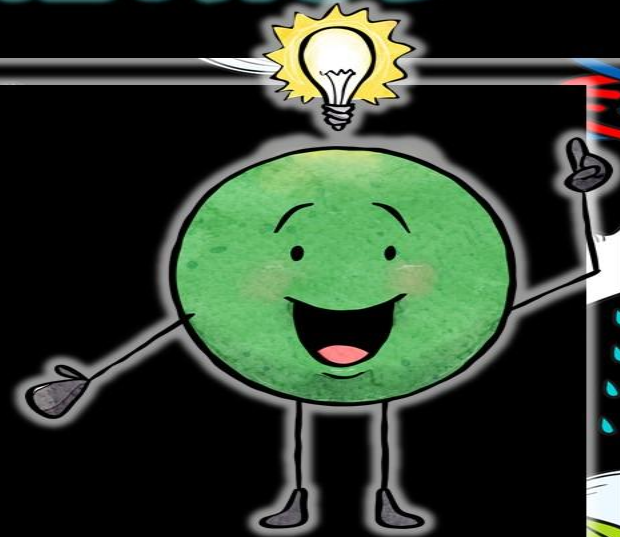
A hypothesis is an educated guess about the answer to your question. It allows for prediction.



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HYPOTHESIS:

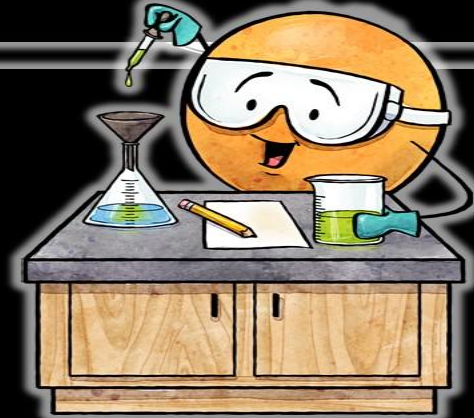
It needs to be easy to measure and not based on non-testable opinion .



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EXPERIMENT:

Designed to test your hypothesis. It should be a fair test with appropriate variables and should be repeated by you and be able to be repeated by others.



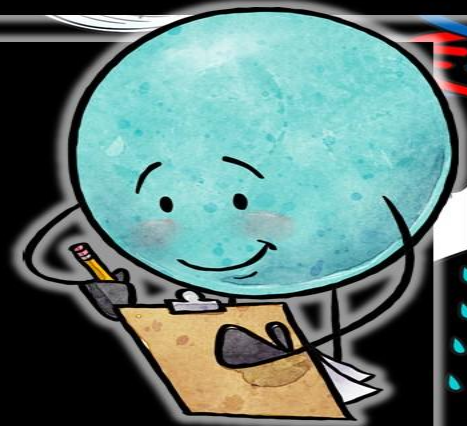
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COLLECT DATA:

Collect all of your data and observations in a journal.

Record it accurately and don't try to make it fit your hypothesis!

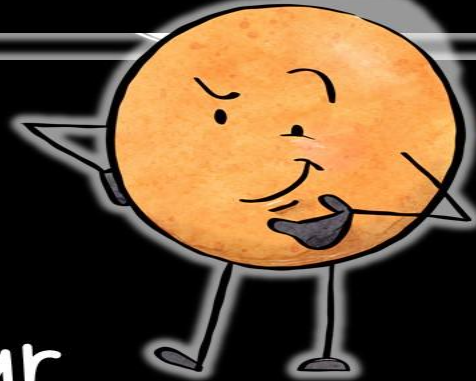
Use correct units.



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ANALYZE:

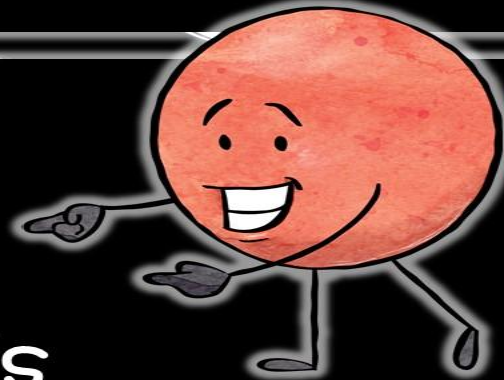
Organize and analyze your data. It may help to use a chart or graph to help visualize your data. Did you get any unexpected results or errors?



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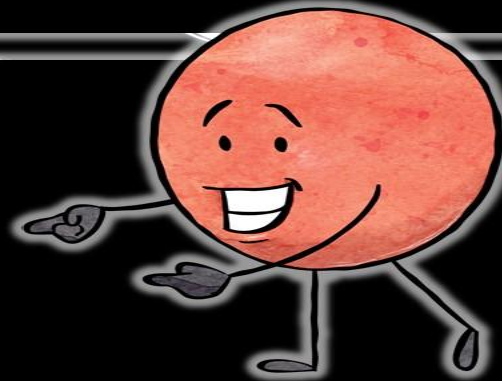
CONCLUSION:

Developing a conclusion is the point when you reach a determination about your hypothesis. Was it right or wrong?



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CONCLUSION:

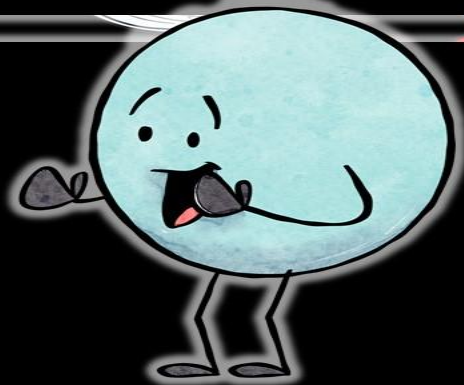


If it was wrong, you may go back and revise it.

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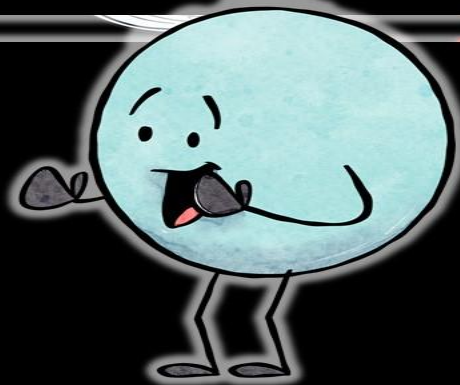
REPORT:

Regardless if your hypothesis was right or wrong, you now have information to share!



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REPORT:



It could be through a report to your classmates, a science fair, or even being in a science journal.