

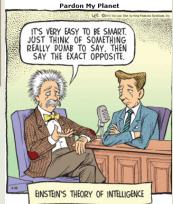




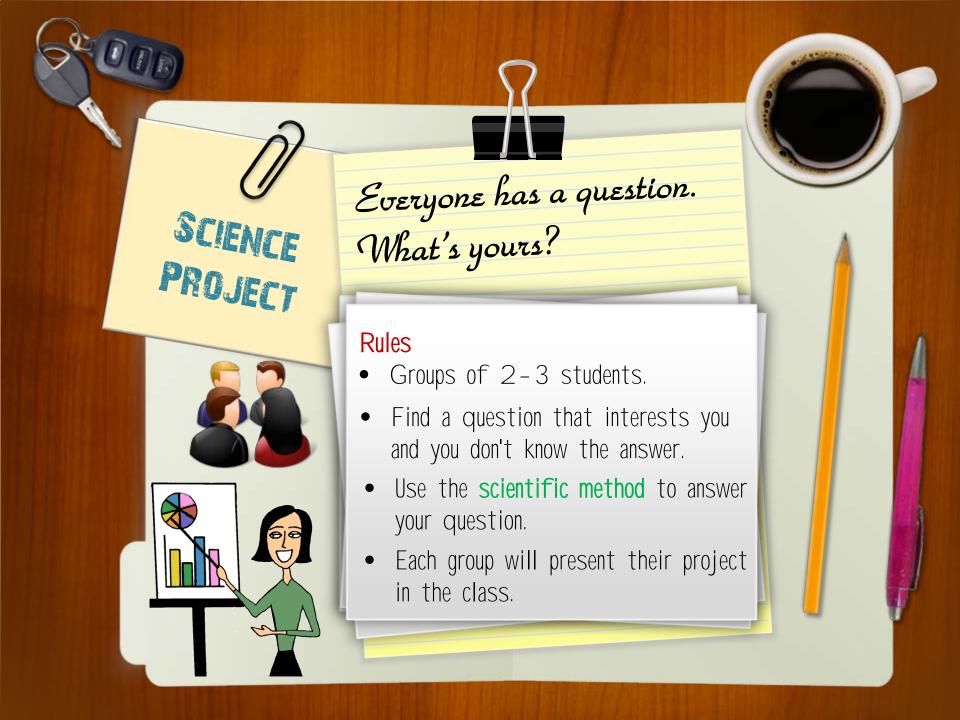


Key Outcomes:

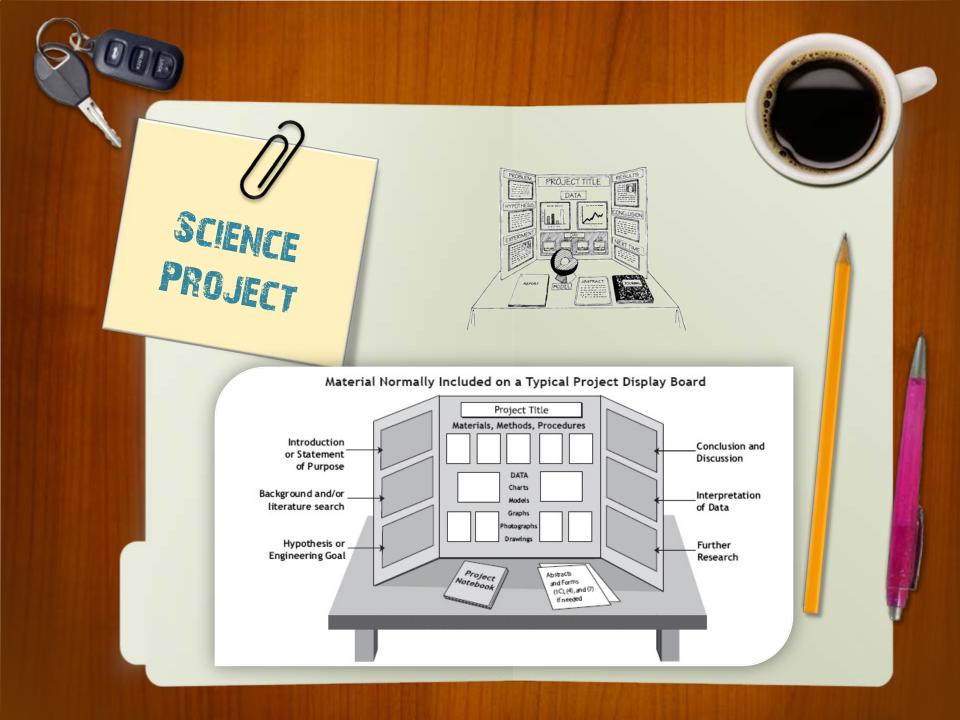
- You will use science creatively to propose solutions to real—life problems.
- You will experience using the Scientific Method.
- Engage with real issues; think about your own interests and passions to identify your question. Find a real—world problem you are personally curious about, and want to investigate, it will greatly enrich your learning experience.
 - Collaborate great teamwork and communication are important skills.
 - Managing time Deadlines are important, so plan your progress and work throughout.















SCIENCE PROJECT

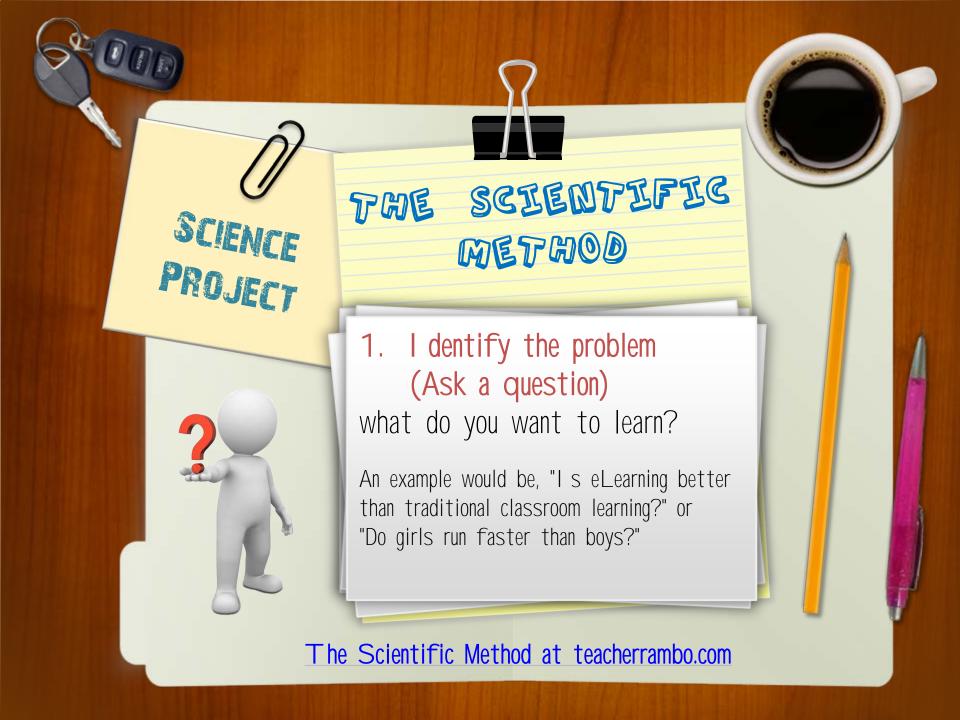
The Scientific Method is an organized way of figuring something out.

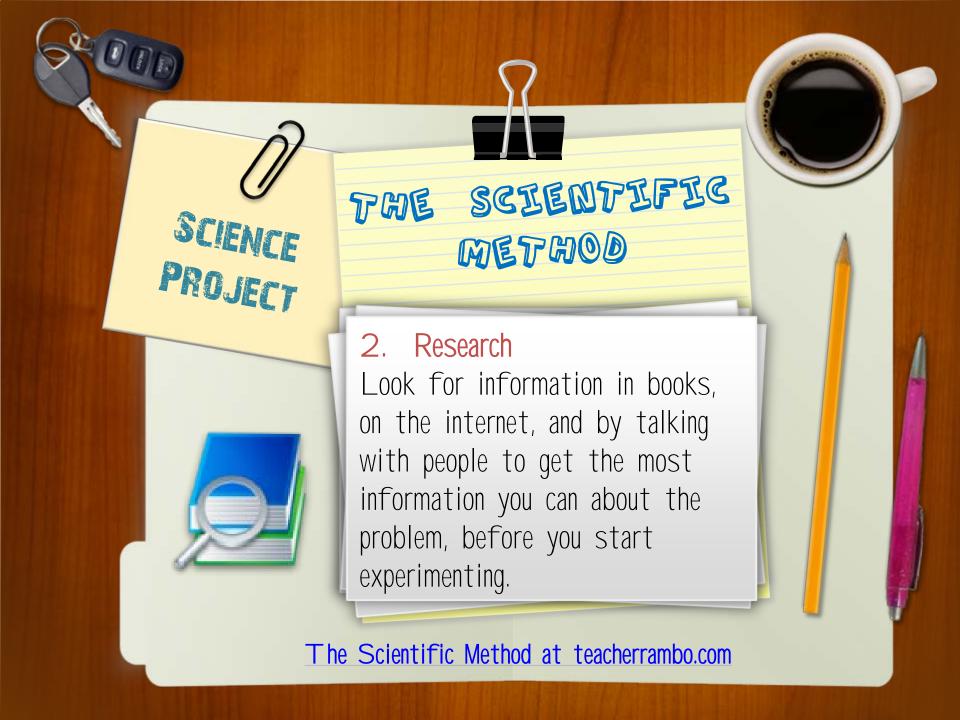


THE SCIENTIFIC METHOD

- 1. I dentify the problem
- 2. Research about it
- 3. Make a hypothesis
- 4. Experiment
- 5. Collect data
- 6. Analyze the data
- 7. Conclusions

The Scientific Method at teacherrambo.com









THE SCIENTIFIC METHOD

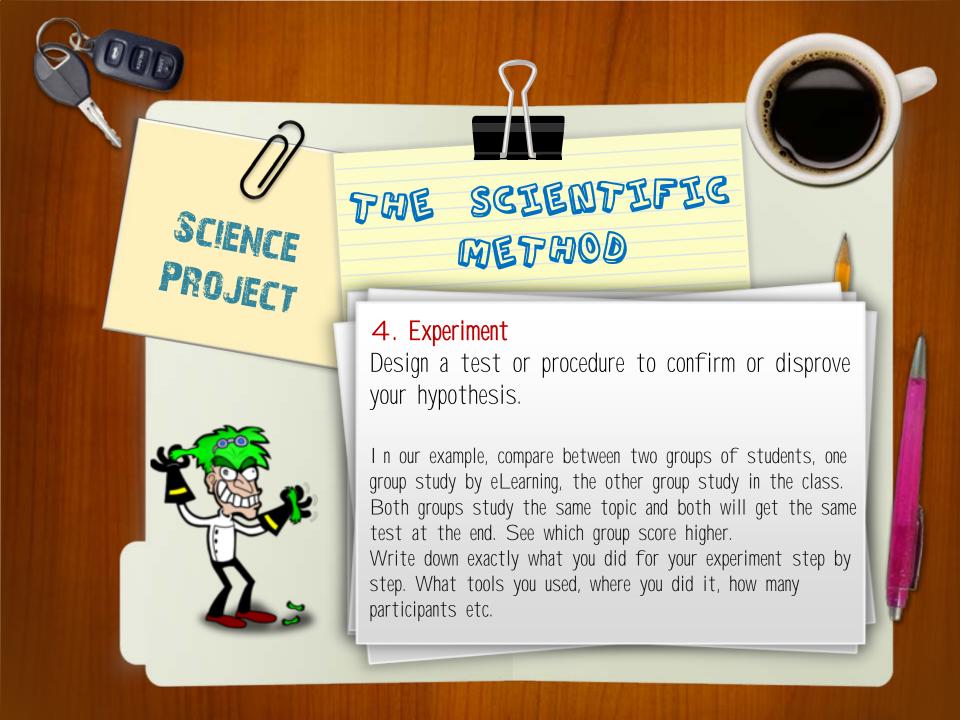
3. Hypothesis

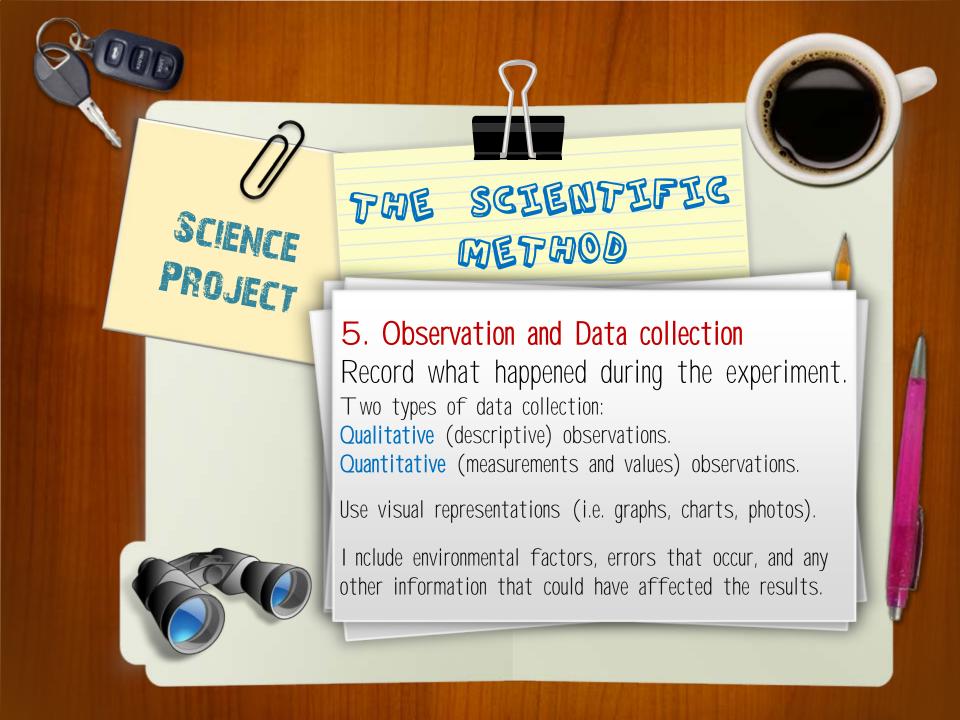
Try to **predict** the answer to the problem.

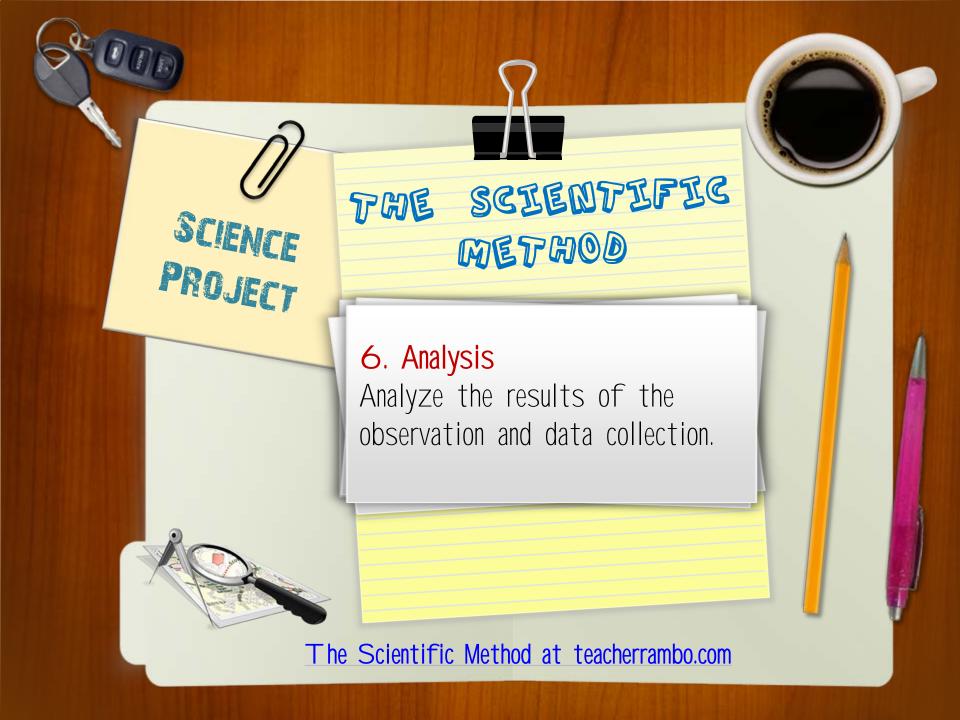
Also called 'educated guess'.

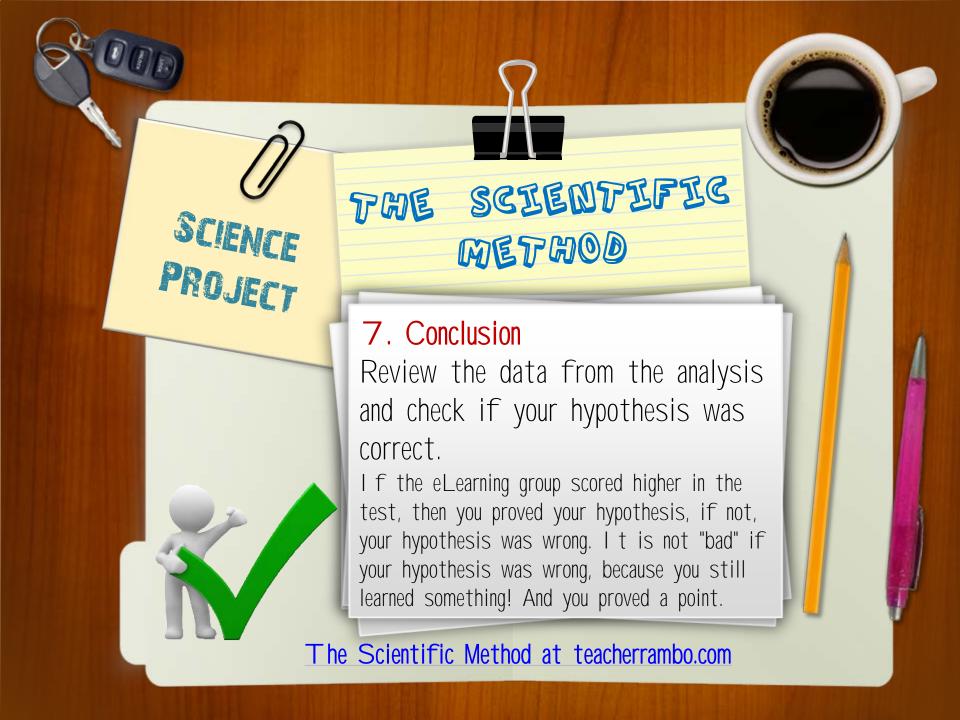
example, "If I study by eLearning I'll score better in the test".

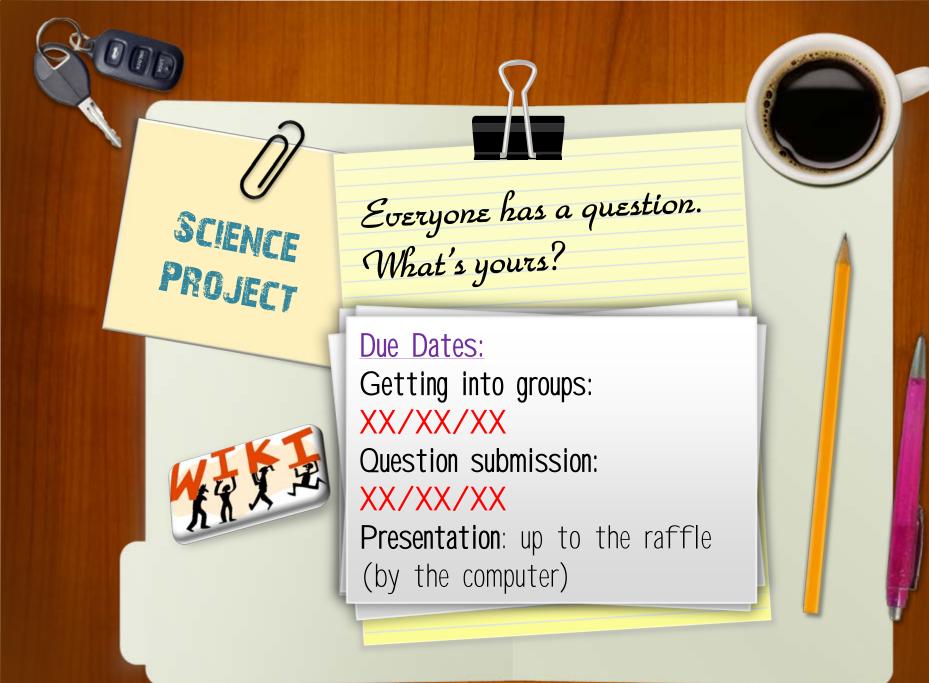
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PROJECT





Examples of questions.

- Is that a real smile...?
- Why cats purr?
- Which drink is most useful to concel the burning of spicy food?
- What is the driving speed which saves fuel?

Asking the right question is very important! Collaborate with your friends and find a question that interests everybody. Then post your question to the wiki.











Everyone has a question.
What's yours?



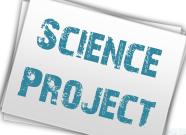
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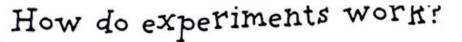


SCIENCE PROJECT TODAY and FINISH OMORROW at 24 HOUR

SCIENCE PROJECTS CLICK HERE



An experiment must be a fair test of an idea.





1. Hypothesis

This is where you explain what your idea is. It also usually includes predictions of what you expect the results of the experiment to be.

2. Method

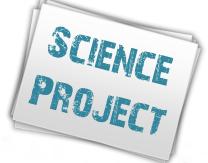
This describes how you're going to do the experiment. It includes a control, which is the 'normal' situation; and the experiment which is like the control but with one key difference. That way, if the results vary, you know it must be because of that one thing.

3. Results

These record the outcome of the experiment (including the control).

4. Conclusion

This is where you interpret the results. Did they support the hypothesis? Have you changed or rejected your hypothesis after seeing the results?



Here's an example of a simple scientific experiment:

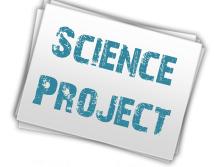
1. Hypothesis
'Plants need water to live. Without water, a plant will die.'

2. Method
Take two plants, and label them A and B. Make sure they're the same kind of plant, get the same amount of light and all other conditions are the same. For two weeks, water plant A (the control, or normal situation), but don't water plant B.

3. Results
Plant A is healthy. Plant B has wilted and died.

4. Conclusion
The only difference between the plants was that one was watered, and one wasn't. So plant B probably died because it didn't have any water. This result supports the hypothesis.





Here's an example of a simple scientific experiment...

1. Hypothesis
'Adding salt to ice makes it melt faster.'

2. Method

Place two ice cubes in separate glasses. Sprinkle a teaspoon of salt on ice cube B, but none on ice cube A. Time how long the ice cubes take to melt. Do they melt at the same speed, or does one melt faster than the other?

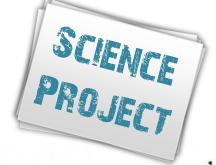
3. Results

Ice cube B melts faster than ice cube A (the control).

4. Conclusion

The only difference between the ice cubes was that one was exposed to salt and one wasn't. So ice cube B must have melted faster because of the added salt. This result supports the hypothesis.





Here's an example of a simple scientific experiment:

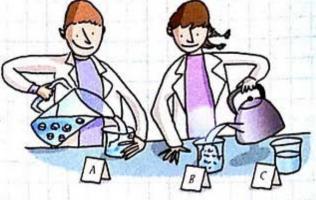


1. Hypothesis

The hotter water is, the easier it is to dissolve sugar in it.

2. Method

Take three beakers, and label them A, B and C. Pour I litre of ice-cold water into beaker A, I litre of hot water into beaker B, and I litre of room temperature water into beaker C. Beaker C is the control. Add 25g of sugar to beaker A and stir the water. Count how many times you need to stir it until the sugar dissolves. Then do the same with beaker B and beaker C.



3. Results

The sugar in beaker B takes the least stirring to dissolve, and the sugar in beaker A takes the most.

4. Conclusion

The only difference between the beakers was the water temperature. So we can conclude that the hotter the water is, the easier it is to dissolve sugar in it. This supports the hypothesis.







SCIENCE PROJECT



MAY THE FORCE
BE WITH YOU

CALM



Everyone has a question. What's yours?

May the force be with you



