



SCIENTIFIC METHOD NOTES



Cornell Notes
 Topic: Scientific Method Name _____ Date ____

Question/Main Idea What is the scientific method?	Notes: • The scientific method is a step-by-step procedure for scientific problem solving.
Steps of the scientific method.	• Remember: ICHEACD
Steps: Identify the Question	• State the problem or question

Steps: Identify the Question




- We observe some aspects of the universe around us that we cannot explain and we ask a question.
- State the problem or question

Cornell Notes Format

Topic: _____	Name: _____	Date: _____
Question/Main Idea	Notes	
Steps of the scientific method		
Steps:		



What is the Scientific Method?

- The Scientific Method is a step-by-step procedure for scientific problem solving.



Collect Information

- What information do you need to know to make an educated guess?
- Do research on the main topics of your problem or question.


Cornell Notes

- Write the topic title on the top left side of the paper.
- Write your name ,date and period on the top right side of the paper.
- Write the title of each slide under question or main idea (left column).
- On the right side of the paper (notes Column) you will write all notes highlighted in the yellow boxes!
- Write a short summary at the end

Steps of the Scientific Method


Remember: ICHEACD

1. Identify The Question
2. Collect Information
3. Hypothesis
4. Experiment
5. Analyze/Record Data
6. Conclusion
7. Discussion



Hypothesis

- An educated guess or proposed explanation for the question.
- A hypothesis must be testable
- Based on observations, research, and prior knowledge.




• HYPOTHESIZE AFTER RESEARCH!

Experiment

- A way to test if your hypothesis is correct or incorrect
- Has materials & procedures list
- Conduct an experiment
- Make observations

Ex: Testing how fertilizer affects plant growth.




Discussion

- A review of the experiment.

Possible topics:

1. Any problems that occurred.
2. Improvements to the experiment.
3. The next step to continue the study.
4. Questions applying the knowledge gained from the experiment.




The End

- These notes on the scientific method will be a great study aid for labs and tests.
- Spend at least 10 minutes each day reading over your notes.

Analyze/Record Data

- The data comes from the experiment
- Create graphs/data tables to see your results
- Are there any patterns or relationships?



Rules for Writing A Good Summary


1. Needs to be in your own words. No copying from the notes!
2. Your summary should be a 1/4 the length of your Cornell notes.
3. Don't start by saying "I learned".

Conclusion

- What was your hypothesis? (restate hypothesis)
- Was your hypothesis supported or not supported by the results?
- What did the results show? (use your data)

Example:

My hypothesis was that the students at Reyburn drink 3 PowerAde drinks on average every week. My hypothesis was not supported because the data showed that students actually drink 4 PowerAde drinks on average every week.



Summary

- **Summary:** write a one paragraph description of the main ideas in the notes (do this at the bottom of the notes in the summary section).

