



What Are Scientific Methods?



Professor Dr. Drake Ramoray was performing two experiments at a time, and he had to submit his reports in a single file. But he forgot to label the sections of the reports and it is all messed up now. Follow the definition guide given here and help him label the submitted report.

Follow this definition guide:

- 1. Question:** It is the first part of an experiment. Ask a reasonable question and decide what is that you want to answer.
- 2. Background research:** It involves finding all relevant information related to your question and obtaining relevant data.
- 3. Hypothesis:** It involves making a prediction about what the result of your experiment will be. It is a statement that might be proven true or false. It is often written in the “If (a) then (b)” form.
- 4. Experiment:** It is a test conducted to find out if the hypothesis is true or false.
- 5. Data:** Data is the results collected from the experiment.
- 6. Conclusion:** It is the final statement that describes what you learned from the research, experiment, and data.



Read the examples of the different scientific methods given below and label the step under which each falls. One has been done for you.

1. If the students read their science notes for 30 minutes every day for five days a week and are provided extra class twice a week, their science scores might improve in July.

Hypothesis

2. The current plant care schedule: watering the plants every day.
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3. Science scores of students in May

John 10/20

Will 9/20

Elizabeth 12/20

Addie 15/20

4. Why are the plants dying within three to four days in spite of being taken care of?
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5. The new schedule of plant care: Water them every alternate day with just one cup of water.
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6. Why is the science score of students not improving?
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7. If the plants are watered every alternate day, they might grow better.

8. The plants look more fresh and greener and are thriving for seven weeks now.

9. Extra classes and 30 minutes of studying science for five days of a week help students in improving their science score without increasing the burden.

10. Science scores of students in July

John 13/20

Will 12/20

Elizabeth 16/20

Addie 18/20

11. Watering the plants on alternate days is good for the plants.

12. I will conduct extra classes and assign them lessons to read for 30 minutes every day for five days a week.

