

1-5. Underline and label a statement that represents each of the following steps of the scientific method in the story below. Question, Research, Hypothesis, Experiment, Analyze Data/Conclusion, Report Results

Jeremy is trying to figure out which brand of detergent will remove grass stains most effectively. **Question**
He looks up information on cleaning products on Google. **Research**
He thinks that detergent with bleach will remove stains better than plain detergent. **Hypothesis**
He obtains 10 grass stained uniforms from the football team and separates them into two groups. He washes 5 uniforms in plain detergent and 5 uniforms in detergent with bleach. After drying all uniform he compares the two groups. He looks for color change/disappearance of the stains. **Experiment**
This information is recorded on a chart and examined. He decides that detergent with bleach does remove grass stains more effectively than detergent alone. **Analyze Data + Conclusion**
He tells his dad that he should buy detergent with bleach to remove the grass stains from his football uniform. **Report Results.**

Answer the following questions with a phrase or a sentence or two.

6. If you were on a game show and had to explain what **CHEMISTRY** was in your own words, what would you say?

the study of matter and the changes that occur to matter

7. If someone asked you, how would you describe **MATTER**.

matter is anything with mass and volume

8. Give an example of a **QUALITATIVE** observation.

the car is red

9. Give an example of a **QUANTITATIVE** observation.

I have three books

10. What does it mean for something to be an **ITERATIVE PROCESS**?

the process is allowed to move forward, backward, repeat, etc. until it's completed successfully.

11. A **LAW** is What happens.

12. A **THEORY** is the human attempt to explain why it happens

13. In the following scenario place a star over the CONTROL, Underline the
DEPENDENT VARIABLE(S), and Circle the INDEPENDENT VARIABLE(S).
(3 points)

Leon wants to determine which brand of paper towel is strongest. He sets up an experiment to test Brand A and Brand B against his current brand of towel, Brand X. measures the strength by placing marbles on the paper towels when wet until the towel breaks. The total number of marbles held by the wet paper towel is recorded in his data chart. When he is finished, Leon plans to report his findings to the class.