

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. He looks up information on cleaning products on Google. He thinks that detergent with bleach will remove stains better than plain detergent. 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. This information is recorded on a chart and examined. He decides that detergent with bleach does remove grass stains more effectively than detergent alone. He tells his dad that he should buy detergent with bleach to remove the grass stains from his football uniform.



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?
7. If someone asked you, how would you describe **MATTER** .
8. Give an example of a **QUALITATIVE** observation.
9. Give an example of a **QUANITATIVE** observation.

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

11. A **LAW** is _____ happens.

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

13. In the following scenario place a  over the CONTROL, Underline the
DEPENDENT VARIABLE(S), and  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. Leon 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.