Scientific Method Name ___ What is the scientific method? It is a ______ that is used to find _____ to questions about the world around us. Is there only one "scientific method"? No, there are several versions of the scientific method. Some versions have more ______, while others may have only a few. However, they all begin with the identification of a or a ______ to be answered based on observations of the world around us and provide method for conducting and analyzing an experiment. What is a hypothesis? It is an ____ _____ based on observations and your knowledge of the What is data? It is ___ _____ gathered during an experiment. What do you want to know or explain? Use observations you have made to write a question that addresses the problem or topic you want to investigate. What do you think will happen? Predict the answer to your question or the outcome of the experiment. How will you test your hypothesis? Develop a procedure for a reliable experiment and address safety rules. Follow the steps in your procedure to perform your experiment. Record data and observations! Is the data reliable? Does your data and observations from the experiment support your hypothesis? Is your data inaccurate or Rewrite your procedure to address the experiment flawed? the flaws in the original experiment. No

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Write a conclusion that summarizes the important parts of your experiment and the results.