

Scientific Method Goal Sheet

Topic	Green	Blue	Black
The 7 Steps of the Scientific Method	Student knows order of the 7 steps and matches each step with its definition	Student knows order of the 7 steps and identifies each step in a story written about an experiment	Student organizes a puzzle of experimental steps into the correct order.
Designing Experiments	Student designs an experiment with 1 variable and 1 control for a given problem statement.	Student designs an experiment with 1 variable and many controls for a given problem statement.	Student designs a multi-variable experiment with many controls for a given problem statement.
Writing Lab Reports	Student writes a lab report with excellent mechanics. Conclusion includes complete sentence answers to 4 questions	Student writes a lab report with excellent mechanics. Conclusion is written as complete sentence answers to 7 questions	Student writes a lab report with perfect mechanics. Conclusion is written as a descriptive paragraph and includes answers to 8 questions
Organizing and Displaying Data	Student organizes experimental data into a table. Student uses data to create a line or bar graph	Student organizes experimental data into a table. Student creates an appropriate graph for the data	Student organizes data into a table. Student creates an appropriate, <i>persuasive</i> graph for the data.
Pinto Bean Plant Growth Lab	Student creates a problem statement requiring 1 variable analysis and writes a blue level lab report	Student creates a problem statement requiring 1 variable analysis and writes a red level lab report	Student creates a problem statement requiring multi-variable analysis and writes a black level lab report
Famous Scientist Reflection <i>Louis Pasteur</i>	Student writes a blue reflection	Student writes a red reflection	Student writes a black reflection