

5a. I can plan and organize an investigation by selecting appropriate procedures and methods for the investigation

5b. I can identify and practice the specific skills and tools necessary for my investigation

5c. I can set up a schedule that allows me to complete my investigation on time.

5d. I can maintain a lab notebook that includes all pertinent information concerning my experiment.

5e. I can construct appropriate data tables and graphs for data derived from complex experimental design.

5f. I can draw conclusions and identify sources of error.

5g. I can conduct a standard deviation/statistical analysis that will help me evaluate my data

5h. I can use appropriate tools and techniques to gather, analyze and interpret data.

6a. I can recognize when my data is flawed.

6b. I can recognize when my protocol deviates from the purpose of my investigation.

6c. I can recognize when my original project was not comprehensive enough and am willing to expand my project to make it more comprehensive.

7i. I can use critical thinking and logic to make the relationships between evidence and explanations.

7j. I can write a conclusion that connects the specific data gathered to the scientific concepts and the purpose of my investigation.

7k. I can include error analysis of the data gathered in my conclusion.

10c. I can modify my research based on the responses from my teacher and fellow classmates.

10d. I can constructively critique the research of my fellow classmates.