Question: What is the question that you are looking into?/3pts
Knowledge Probe: What kind of background information have you found on this subject/5pts
Prediction: What did you predict or think would happen?/3pts
Investigation Plan: What are all of the steps necessary for someone to complete this
lab to the level of detail that you did yours?/7pts
Observations: have the following 2 sections
Qualitative Observations: In words, describe what happened. You haven't had a chance to actually graph out your data yet, but just from observations describe what you think happened and how that relates to what you thought would happen/10pts
Quantitative Observation: Include your data table that has all of your data. Make sure things are labeled correctly/10pts
Data Analysis: Place your data into a graph so it can visually be analyzed. You can do
this on graph paper, or with the computer.
Explanation: What did you learn?/5pts
Claim: What claim can you make based on your evidence? Does your claim answer your investigation question?/5pts
Evidence: You are making the above claim based on what evidence?/2pts
Reasoning: Make an argument to prove why your evidence backs up your claim. Does the reasoning link the claim and the evidence? Does the reasoning make a strong argument? Does the reasoning consider alternative explanations?/1pt
Evaluation: How well did you do? Critique your own investigation in the next 7 questions.
a. What were the sources of error within this experiment?/5pts
 b. How would you do things differently next time?/5pts c. How confident are you in your results? and explain why. Place your response and reason why under one of the following 4 responses/4pts

Strongly confident

Conducted a minimum of 10 trials minimized potential sources of error had my results confirmed used scientific concepts, principles, or theories

Somewhat confident

conducted a minimum of 5 trials attempted to minimize potential sources of error had my results confirmed used scientific concepts, principles, or theories

A little confident

Conducted a minimum of 3 trials considered potential sources of error did not have my results confirmed did not use scientific concepts, principles, or theories

Not confident at all

Conducted less than 3 trials did not consider potential sources of error did not have my results confirmed did not use scientific concepts, principles, or theories

d. Wh	at could be alternate explanations for your results?/4pts
e. Wh	nat surprised you about the investigation/4pts
f. Wh	at would your prediction be in you conducted this investigation again?/2pts
g. Wh	nat questions would you pursue next? How does this lead to further questions?/5pts
Applic	cation:
 How might thi	is data be used in real life application?/5pts
Journ	al:
Overall, desci	ribe the process of your investigation. Compile these 6 bullets and more into a complete written

- -What did you do for your experiment?
- -What did you find out about your experiment?
- -Was it easier, or more difficult than you thought to set up your own experiment? What were some of the struggles.
- -How would you change things next time, or what are the sources of error?
- -What further questions does this lead to?
- -How did you like doing an investigation such as this, that was directed by you, but took much more time and thought