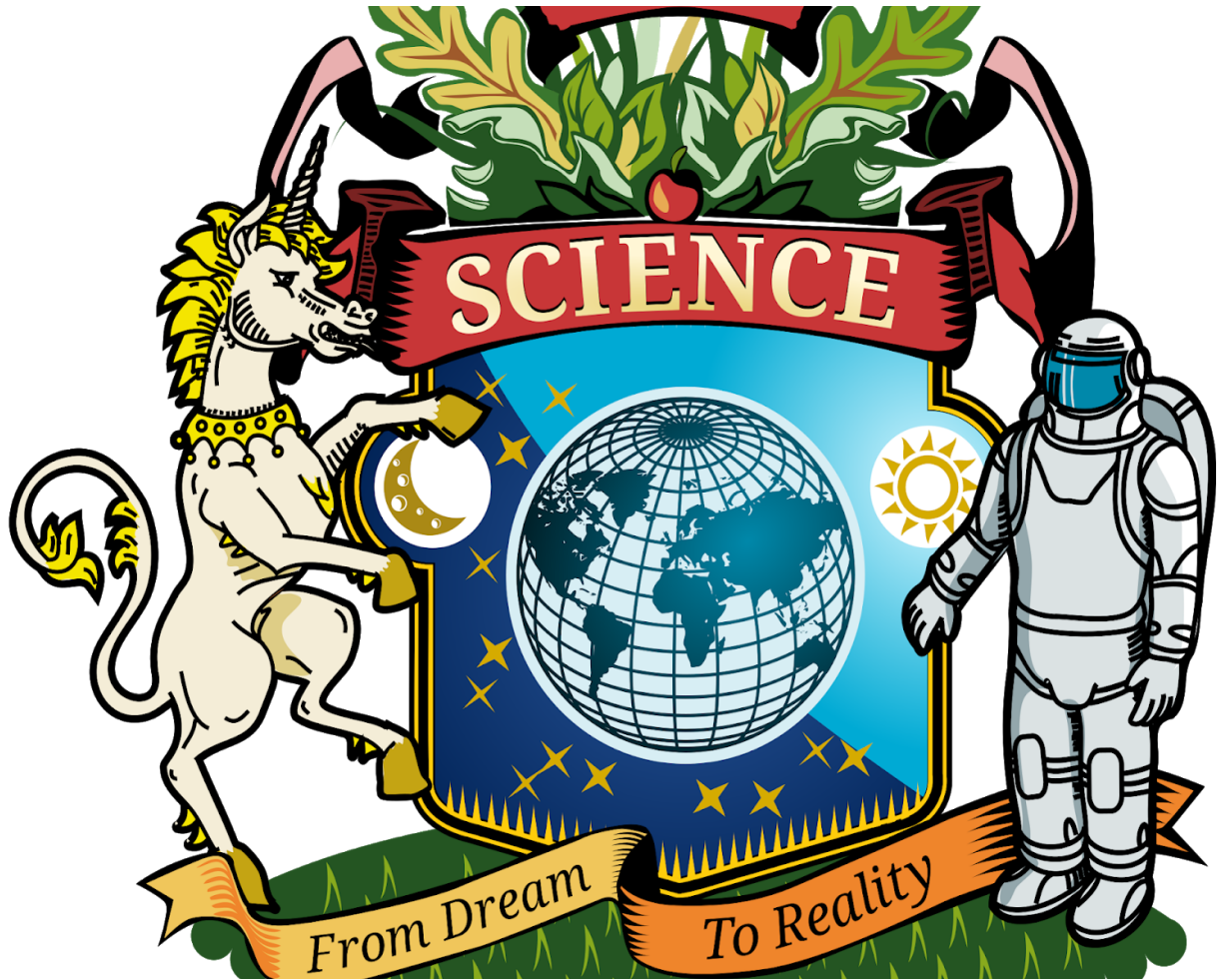


# SCIENCE FAIR REPORT

*Scientific Inquiry Design*



**Name:**

Date Project Assigned: March 19, 2019

Date Project is Due: Wednesday, April 24, 2019

We will spend time in class researching different ideas for your science fair project. Once you have decided on a project, use this packet as a guide for your research and planning. Take notes in this packet and use it as a rough draft from your presentation and poster board. You will turn this packet in along with your final project.

Your completed presentation/poster board should contain all of the following: your question, hypothesis, materials, procedures, data/results, and conclusion. You will also prepare a presentation to go along with your poster board describing and summarizing your project.

You may include pictures and videos as part of your presentation.

A rubric is attached at the back of this packet so you can see what/how you will be graded. Judges will be coming by to see your project, so be sure to prepare and practice your presentation.

**INTRODUCTION** - What is your experiment about? Why should I be interested in your results? What influenced you to wonder about this? DETERMINE WHAT KIND OF PROJECT YOU WANT TO DO AND FORMULATE A TESTABLE QUESTION.

**Include information about your test:** (This will show you've thought it through)

Independent Variable:

Dependent Variable:

Control:

Constants:

**Is there any research you will need to do? If so, what will you be researching?**

**HYPOTHESIS** - After conducting your research, formulate your hypothesis. Write your hypothesis to your question. It should be written as an "If..., then..., because...." statement.

**MATERIALS** - List EVERYTHING you will use in your experiment. Be sure to include amounts and units and quantity (how much).

**PROCEDURE** - List the EXACT steps you need to do to do this experiment in DETAIL. Anyone should be able to repeat your experiment exactly the way you did it. Think about following a detailed recipe.

**CONDUCT** your experiment and record your observations.

**DATA** - Design a data chart that fits your needs to record and collect your data during your experiment. Remember - the more trials you do, the more accurate, reliable, and valid your results are! You can also include pictures or video evidence.

**RESULTS** - ANALYZE (look over carefully) your data. What patterns do you see? Do you see a trend? Can you predict what would happen if continued the experiment? Did you get the results you expected? Do you see any problems with your data? What does your data prove?

**CONCLUSION** - Based on the analysis of your data, was your hypothesis correct? How do you know? Always go back and reflect on your original hypothesis. Why do you think this happened? If you had to do this experiment again, what would you change? What questions does your data make you wonder about?

**REFERENCES** - Did you get any information from a source like a website or book or professional that you need to give credit to?

1. Example : Book - title and author
2. Website : <http://>
3. Interview with an engineer: Name and experience

## Science Fair Rubric

	Points Earned
Question (10 pts)	
Hypothesis (10 pts)	
Materials (10 pts)	
Procedures (10 pts)	
Data/Results (10 pts)	
Conclusion (10 pts)	
Presentation (40 pts)	
Final Grade	

Question: The question should be clear and testable.

Hypothesis: The hypothesis is clear and concise.

Materials: The materials list is complete.

Procedures: The procedures are organized in an efficient manner.

Data/Results: The data is clearly displayed in a manner that needs little explanation.

Conclusion: The conclusion is stated and relates back to the accuracy of the hypothesis.

Presentation: The presentation should be well prepared and include all information above.

