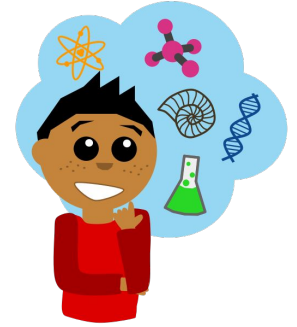




# Mini Science And Engineering Fair

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2023



# **What is a Science/Engineering Project?**

Scientific research is an exciting way to explore the surrounding world as well as solve real world problems. Scientific and engineering methods are necessary to adequately investigate these real-world problems.

# Difference Between Science and Engineering

## Science verses Engineering



| Science Process                                     |
|---|
| Define the Problem                                  |
| Find a <u>purpose</u>                               |
| Construct a <u>hypothesis</u><br>Identify variables |
| Write a research plan<br>Complete forms             |
| Test hypothesis by conducting<br>experiment(s)      |
| Analyze results                                     |
| Draw a conclusion(s);<br>ask new question           |

| Engineering Process                       |
|---|
| Define the Problem                        |
| Find a <u>goal</u>                        |
| Develop <u>design criteria</u>            |
| Write a research plan<br>Complete forms   |
| Build and test prototype                  |
| Analyze results                           |
| Draw a conclusion(s);<br>ask new question |

# Science and Engineering Step-By-Step

1. Select a topic
2. Write a research plan
3. Test Hypothesis by conducting science experiments/or design for engineering.
4. Analyze Data and draw conclusions
5. Write Abstract
6. Prepare display board
7. Practice presentation
8. Present to Judges

# Can I work in groups?

You may work with a partner or in groups of three.



# Possible Topics

SCIENCE TOPICS

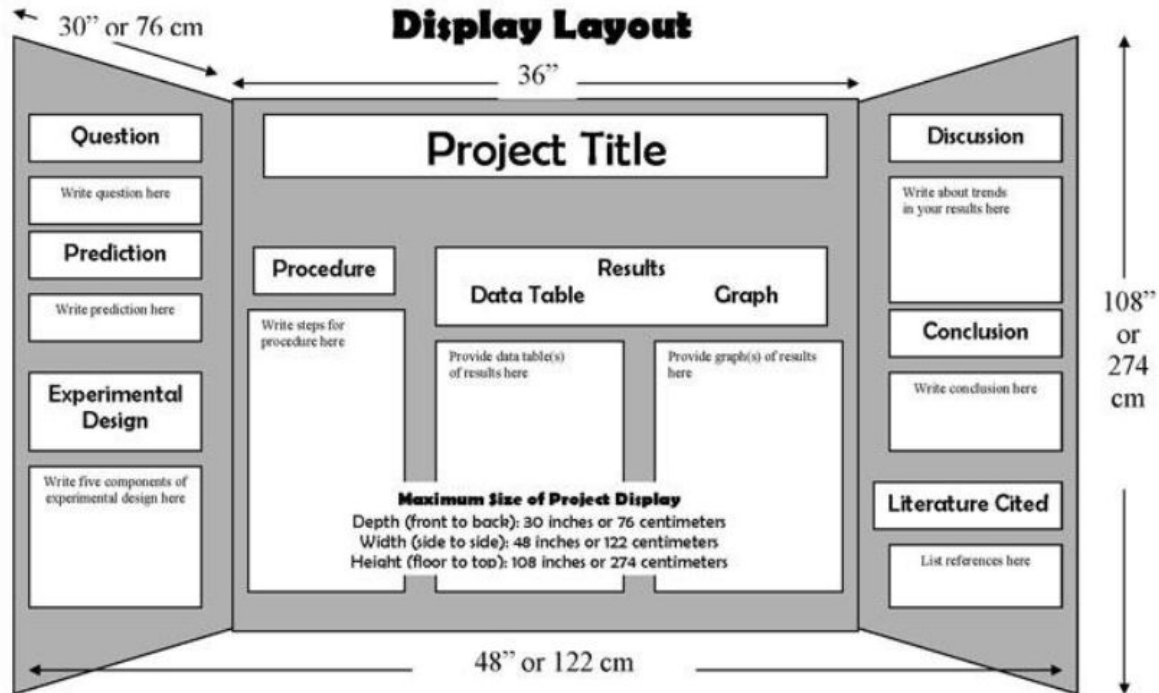
ENGINEERING TOPICS



# Due Dates

| Due Date       |   |
|----------------|---|
| March 1, 2023  | Parent Q and A 6:00 PM<br>Zoom:<br><a href="https://atlantapublicschools-us.zoom.us/j/4045837667?pwd=N3hsYjZzS2VoUnNPWEx4U3gxK29Zdz09">https://atlantapublicschools-us.zoom.us/j/4045837667?pwd=N3hsYjZzS2VoUnNPWEx4U3gxK29Zdz09</a><br>Meeting ID: 404 583 7667<br>Passcode: spark |
| March 6, 2023  | Choose a project topic: Turn in research plan to Ms. Siembieda.<br>Only students with a research plan that is approved can participate.<br><a href="#">Research Plan Template</a>   |
| March 23, 2023 | Bring in projects   |
| March 24, 2023 | Present Projects to Judges  |

# Board and Log Book





# Q and A



# **Ms. Siembieda's Contact Information**

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