Free Horizon Montessori
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# Primary & Lower Elementary
# Science and Engineering Fair Registration Form

Please complete the form and return to classroom teacher **no later than January 30, 2019**.

Student Name:_____Class:_____

Your question or statement will drive your entire project. Make sure that your question or statement is something that can be measured and answered by following the scientific process. Your question will also be the title of your project.

**Proposed Science and Engineering Fair question or problem statement:**

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Once your project has been approved, this form will be sent back along with a packet to guide you through the process of preparing for the Science and Engineering fair.

**Parent/Guardian:**

I acknowledge that by submitting this form my child will be participating in the Science and Engineering Fair at Free Horizon Montessori and that this may involve some participation on my part at home.

Signature:_____Date:_____

# Free Horizon Montessori – Science and Engineering Fair Registration

The FHM Science and Engineering Fair is *optional*, but *encouraged*, for our Primary and Lower Elementary students. It is required for all Upper Elementary and Middle School students. This should be a fun project! Success is when your child asks their own question, completes their project with a smile, and knows more than when they started.

**Choosing a Topic.**

Younger students tend to gravitate towards understanding "what" something is or "why" something happens. Ask questions to help the student focus on their interest. Focus on topics about which they do not already know the answer. The subject does not need to be overly complicated. The topic should be something the student can figure out for themselves. It is important that the student uses their own words and it is a subject they are excited about. This will help tremendously for when they do their presentation.

The following list is intended to help determine the type of project they want to do.

**COLLECTION (S)** – You will collect and organize something of interest, answering questions related to observations (the things you see, hear, feel) made while exploring your world. Examples: What kinds of insects can be found in my backyard? What types of tree leaves can be found on my street?

**EXPERIMENT (S)** – You will conduct an experiment to find the answer to your question/problem. The Scientific Method will take you through the correct process of asking a question, doing some preliminary research, making a hypothesis (your best guess at how it will turn out), planning and conducting your experiment, and analyzing your results.

**INVENTION (E)** - You will use science, math, and creativity to dream up and design an object or a process to solve a real life problem. Using The Engineering Design Process will take you through all the necessary steps: asking a question, brainstorming, planning, creating, testing, and making it even better.

**RESEARCH PROJECT** - Someone has already found the answer to your question/problem, and you will look for their answer/solution by reading books, talking to experts, and gathering information from other sources such as schools and public libraries. Your display board will have drawings, photographs, charts, graphs, dioramas, etc. Examples: How does a solar cell work? How does a light bulb operate?