

What a STEM Fair Project Is and Is Not **2019-20**

A STEM Fair Project Is Not

- Just an experiment, just building a product, or doing something on the computer
- A report about a science, engineering, or computer topic
- A simulation or demonstration to show how something works
- A survey of what people think or feel about something
- An experiment that shows common knowledge that everyone knows
- An experiment that is copied from of a book or off the Internet
- Gathering statistics from a news source and reporting on the daily changes

A STEM Fair Project is

- Thinking of a question or problem to investigate and solving it by means of:
 - the scientific method process
 - the engineering design process
 - or the computer design process
- Planning:
 - an investigation to answer a science question using strategies
 - by design to construct a prototype
 - by design to write a computer program
- Follow through with:
 - conducting an experiment and gathering measurable data
 - constructing something that works
 - programming a code for a computer
- Analyzing data to gain knowledge
- Using the knowledge learned to make a connection to higher-level ideas and to understand those new ideas to see how to apply them to the real world