Lesson 3

DEFINE

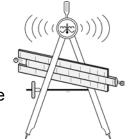
Science or Engineering?

For the Science & Engineering Fair you can conduct a *Science* investigation or an *Engineering* investigation. The process is slightly different for each:



Science Process:

- ence Process:
 Define the Problem
 Find a Purpose
 Write a Hypothesis
 Develop a Procedure
 Analyze Results
 Draw a Conclusion
 Engineering Process:
 Define the Problem
 Find a Goal
 Develop design criteria
 Build and test prototype
 Analyze Results
 Draw a Conclusion



You may already know if you have a Science Investigation or an Engineering Investigation. Science Investigations create new knowledge about how things live, operate, or exist. Engineering projects generally involve construction or design of an idea or new product.

A. Do I have a Science Investigation Topic?

Answer these questions if you think you have a Science topic

- · What MATERIALS are readily available for conducting experiments on ? (Your topic)
- How does ACT?
- How can you CHANGE the set of materials to affect the action?
- How can you MEASURE or describe the response of to the change?

B. Do I have an Engineering Investigation Topic?

Answer each of these if you think you have an Engineering topic:

- What is the need you are meeting or the problem you want to solve using ? (Your topic)
- What MATERIALS / EQUIPMENT are readily available for the design and testing of ?
- What construction or testing standards will you set?
- How can you MEASURE the success of the design of

Add this information to your log book.