

How Do I Begin this Mini-Engineering Notebook (EN)? Handout Instructions

Resources provided

1. 2016 Engineering Notebooks + 2016 Software Design and Simulation Scoresheets are located in your school's TMI Notebook
2. Engineering Notebook Template file was created using this Office.com Template: *Reports and Papers / Outline for School Report File*. The outline is customized based on the 2016 Engineering Notebook plus Software Design and Simulation scoresheets. (Teachers /mentors **may choose** to use this template with their students as a teaching tool. Remember to have students **update** for any 2017 scoresheet changes.) The template includes the following 5 sections:
 - a. Outline,
 - b. Body,
 - c. Works Cited,
 - d. Checklist,
 - e. Tips.

What do I need to do to create a Mini-Engineering Notebook?

1. Use the Engineering Notebook template file outline section to enter information these 3 areas based on your team's activities
 - a. Brainstorming Approaches
 - b. Implementation of the Engineering Design Process
 - c. Evidence that safety training occurred and safe practices were followed
2. Prior to 2 PM, complete file changes and score the 3 outline section areas in your 3 Mini-EN and then email your Mini-EN file and score to Linda.King@bestinc.org.

How about some advice found in some of the slides of The Trials and Tribulations of Writing an Engineering Notebook?

1. Read before you start any building or writing!
 - a. The purpose of the notebook is to document the process the team uses to design, build, and test their robot to perform successfully in the game.
 - b. Read the handout: How to Build A Mini-Robot.
 - c. Develop your strategy for the TMI Mini-Competition using the scoring information and the game field pieces.
 - d. Become familiar with the consumable items available for the build—what, if any, constraints do these items present as you think about the robot design?
2. Mini-EN Contents
 - a. Brainstorming approaches
 - i. Write about your process for brainstorming.
 - ii. What did you brainstorm?
 - iii. What did you consider and what were the results?
 - iv. Write about your alternative ideas and gaming strategies.
 - b. Implementation of the EDP
 - i. Document your testing process.
 - ii. Document both failures and successes.
 - iii. Document cause and effect.
 - c. Evidence that safety training occurred and safe practices were followed
 - i. Prevent team members misuse of tools and other devices/equipment that may result in personal injury or damage to property
 - ii. What did you do to be a good model of safety?
3. Write the book!!
 - a. Keep it simple—capture information in outline format

This is a
Notebook!
(some assembly required)

