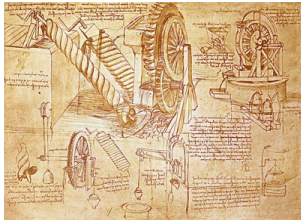


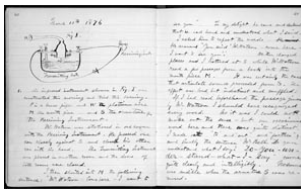
# ENGINEERING NOTEBOOK

## What is an Engineering Notebook?

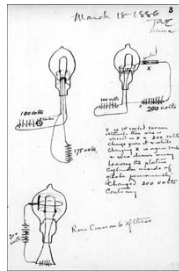
It is a science journal to record research, observations, ideas, images, and questions during the invention process.



When you show this notebook to someone else, they will understand how you came up with your solutions.



Great inventors have used such notebooks to record their ideas.



The samples here are from DaVinci, Bell and Edison.

## What goes in an Engineering notebook for a robotics team?

Everything. You can include:

- Problems you are trying to solve
- Possible solutions
- Drawings of designs you want to build
- What worked and what did not
- Background research for your project
- Interview notes with experts
- Photos of robots and attachments
- Questions you have
- Code printouts
- What you want to work on next
- LDD designs

## Is an Engineering Notebook required in FLL?

No, it is not required in FLL. It is required in FTC and FRC. No judge will expect one or request it.

However, we have found that keeping an Engineering Notebook helps us

- Record our ideas in case we want to revert back
- Remember what we did in the season

*For us, it is not an Engineering Notebook, but a "Team Journal". We use it to record robot and attachment designs and problems with the code, but also to record outreach events and research field trips.*

## What type of notebook should I get?

Traditional Engineering Notebooks have graph paper or blank pages so you can draw.

*Since a notebook is not required, there is no need to spend money on anything special. We recommend a normal school spiral notebook, composition notebook or binder.*



*We found it easier for team members to type their entry and add it to a binder so that everyone can work on it even in their own home.*

## Who writes in the Engineering Notebook?

Have everyone from the team take turns doing an entry.

If you go on a field trip, one of the students on the team is responsible for writing up an entry and collecting everyone's notes to put in the binder.

If you worked on a new design, a student is responsible for taking a photo and writing about what they worked on, how they tested it, etc.