

# Lab Notebook

## Description

The Idaho TECH Lab Notebook is referenced often in the Activity Books. What exactly is this Notebook? The Lab Notebook is a vital part of Idaho TECH because it teaches each team how to document the Engineering Design Process. **The Lab Notebook is completed by the students.**

## Justification

“Due to the budgetary concerns expressed by Congress, and in the nature of sound scientific research, the team **MUST** maintain a **Lab Notebook** of the design process and expenses. The Notebook must have **DATED** entries and must **OUTLINE** your work as your team progresses through the Engineering Design Process. Your Lab Notebook is a record of the work your team does on your Rover, and must be handwritten. The budget pages must include both *actual* expenditures and *estimated* values of any materials used but not purchased. It may also contain drawings, brainstorming sessions, anything fun that happened at the meeting, and anything your team learned.” – Idaho TECH Competition

## Notebook Requirements

The notebook may be spiral, binder, etc. All entries must be handwritten. Your teams must **leave the first page blank for the Timeline**

### ★ Activity Entries (Recommended)

- Record entries as the team works through the activities.
- None of the activities are required to be included in the notebook, but we highly encourage that your team include their notes.
- Recommended Activity: **Building a Working Team** 

### ★ Timeline (Required)

- The timeline must detail when and in what order the team will complete ALL components of the Idaho TECH Program, including the Engineering Design Process.
- **Timeline must be the first entry in the Notebook.**
- Recommended Activity: **Earthling Exploration of Mars** 

### ★ The Engineering Design Process (Required)

- Detail the entire Engineering Design Process from when you start designing/constructing your Rover to the final product.
- Every step in the process must be recorded in detailed entries that are dated and initialed by the student(s) who recorded the entry.
- Recommended Activity: **3-2-1 Pop! – An Effervescent Race** 

### ★ Budgets (Required)

Three separate, itemized budgets must be included in the Lab Notebook to document the expenditures:

1. Additional Lego® parts (\$50 maximum)
2. Use of Non-Lego® Allowable Elements
3. Display construction (\$30 maximum)

### ★ Pie Charts (Required)

- A pie chart categorizing each team member's contributions to the design process.