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

★ Timeline (Required)
  o 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.
  o Timeline must be the first entry in the Notebook.
  o Recommended Activity: Earthling Exploration of Mars

★ The Engineering Design Process (Required)
  o Detail the entire Engineering Design Process from when you start designing/constructing your Rover to the final product.
  o Every step in the process must be recorded in detailed entries that are dated and initialed by the student(s) who recorded the entry.
  o 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)
  o A pie chart categorizing each team member’s contributions to the design process.