

# Student-Friendly Engineering Notebook Rubric

## Scores and What They Mean



- Exemplary ★★★★★ We did this all the time and very well.
- Proficient ★★★ We did this most of the time.
- Developing ★★ We did this sometimes but need more details
- Beginning ★ We rarely did this or forgot to include it.

<b>Is our notebook easy to follow? (15%)</b> <i>Ask Yourself: Can someone quickly find information? Are pages in order? Did we write the date on our entries?</i>				
Look For	Exemplary ★★★★★	Proficient ★★★	Developing ★★	Beginning ★
Team information	Everything is included and easy to find	Most information included	Some information	Missing
Table of contents	Completely updated	Mostly updated	Started but not updated	Missing
Dates and page numbers	Every page is dated and numbered	Usually included	Sometimes included	Rarely included
Organization	Very neat and professional	Easy to follow	Somewhat organized	Hard to understand
Team information	Everything is included and easy to find	Most information included	Some information	Missing
<b>Did we show our engineering design process? (25%)</b> <i>Ask Yourself: Did we explain why we made choices? Did we try more than one idea? Did we make improvements?</i>				
Look For	Exemplary ★★★★★	Proficient ★★★	Developing ★★	Beginning ★
Brainstorming ideas	Lots of ideas with comparisons	Several ideas	Some ideas	Few ideas
Choosing a design	Decisions are clearly supported	Good explanations	Some reasons	No reason given
Building prototypes	Many improvements and versions	Several prototypes	Some examples	Few examples
Improving our ideas	Continuous improvements based on learning	Clear improvements	Some changes	Little evidence
<b>Did we explain our design? (20%)</b> <i>Ask Yourself: Could another team build our project from our notebook? Did we label our drawings? Did we explain how things work?</i>				
Look For	Exemplary ★★★★★	Proficient ★★★	Developing ★★	Beginning ★
Sketches and drawings	Excellent labeled drawings	Detailed sketches	Basic sketches	Few or none
Pictures and build notes	Lots of helpful photos and notes	Good documentation	Some included	Very few
Measurements and calculations	Used often to help make decisions	Several	A few	None
Technical explanations	Excellent explanations that teach others	Clear explanations	Some explanations	Very little detail
<b>Did we test and improve? (15%)</b> <i>Ask Yourself: Did we write down what happened? Did we learn from our mistakes? Did testing help us improve?</i>				

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Look For	Exemplary ★★★★★	Proficient ★★★	Developing ★★	Beginning ★
<b>Testing</b>	Lots of testing	Regular testing	Some testing	Rarely tested
<b>Recording results</b>	Excellent data and observations	Good records	Some notes	Few notes
<b>Learning from tests</b>	Used results to make better designs	Good explanations	Some reflection	Little reflection
<b>Improvements</b>	Many improvements based on evidence	Several improvements	Some changes	Few changes

### Did we work together in an organized way? (10%)

*Ask Yourself: Did everyone contribute? Did we keep track of what had to be done? Did we make and follow our plans?*

Look For	Exemplary ★★★★★	Proficient ★★★	Developing ★★	Beginning ★
<b>Team roles</b>	Roles and responsibilities are tracked	Roles are clear	Some roles listed	Not explained
<b>Meeting notes</b>	Excellent records of meetings	Regular notes	Some notes	Few notes
<b>Planning</b>	Excellent planning and goal setting	Good planning	Some planning	Little planning
<b>Task tracking</b>	Outstanding follow-through	Good tracking	Some tracking	No tracking

### Did we reflect and learn? (10%)

*Ask Yourself: What worked? What didn't work? What will we do differently next time?*

Look For	Exemplary ★★★★★	Proficient ★★★	Developing ★★	Beginning ★
<b>Reflecting on successes and failures</b>	Deep reflections	Often	Sometimes	Rarely
<b>Learning from mistakes</b>	Excellent examples	Good examples	Some evidence	Little evidence
<b>Planning next steps</b>	Thoughtful goals and plans	Clear next steps	Some ideas	Few ideas

### Did we tell our team's story? (5%)

*Ask Yourself: Can someone read our notebook and understand our whole journey? Does it show how we improved over time?*

Look For	Exemplary ★★★★★	Proficient ★★★	Developing ★★	Beginning ★
<b>Complete story of the season</b>	Complete story from beginning to end	Mostly complete	Some gaps	Many gaps
<b>Growth and improvement</b>	Amazing story of learning and improvement	Clear growth	Some growth shown	Hard to see