

Student-Friendly Engineering Notebook Rubric



- 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.

Is our notebook easy to follow? (15%) <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
Pages in order	Easy to follow in date order or by section	Mostly in date order or by section	Some pages missing, out of order, or sections unclear	Hard to follow
Did we show our engineering design process for our robot and coding projects? (25%) <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 ★
Identifying the Problem	Clearly defines the problem	Most parts identified	Basic goals listed	Minimal
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
Did we explain our robot and code designs? (20%) <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 notes about builds and coding project	Lots of helpful photos and notes of the design process	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
Use evidence	Strong data and analysis	Data supports choices	Limited evidence	Unsupported claims
Did we test and improve our robot and coding projects? (15%)				

