



Purpose: Use evidence from your final prototype, testing, and design changes to explain how your team used the Engineering Design Process. Complete individually unless directed otherwise.

Name		Period	
Team Members		Date	

PART A - FINAL DESIGN & PERFORMANCE

Record what the final prototype actually did.

Qualification Check	Result	Pass?	Evidence / Observation
Footprint <= 12 x 12 in	____ x ____ in	☐ Y ☐ N	
Pad height <= 12 in	____ in	☐ Y ☐ N	
Rocket installs/removes safely		☐ Y ☐ N	
60-sec unsupported stability	____ sec	☐ Y ☐ N	
10° tilt - all 4 directions		☐ Y ☐ N	
Controlled disturbance test		☐ Y ☐ N	

Maximum successful tilt angle: _____°

A1. What feature contributed MOST to your final design's stability?

Explain how it affected support, bracing, joints, center of gravity, or the base of support.

A2. What was the weakest part of the final design?

Use a specific observation from testing or competition as evidence.

PART B - DESIGN DECISIONS & ITERATION

Explain why your design was selected and how it improved.

B1. Which concept did your team select, and why?

Refer to your decision matrix, criteria, constraints, or other selection evidence.

B2. Describe the most important design change made after testing.

State what changed and why the change was necessary.

B3. Did that change improve the design? Explain with evidence.

Use test results or observations. If it did not improve the design, explain what you learned.

PART C - ENGINEERING DESIGN PROCESS Give one specific example or piece of evidence for each step.

EDP Step	What the Step Means	Evidence From Our Project
Define	Problem, criteria, constraints	
Research	Study stability / structures	
Imagine	Generate multiple concepts	
Select	Evaluate and choose	
Develop	Dimensions, materials, build plan	
Build	Fabricate prototype	
Test	Collect performance evidence	
Improve	Make evidence-based change	

C1. How did your team COMMUNICATE its engineering work?

Refer to sketches, the decision matrix, build documentation, test records, or this design review.

PART D - FINAL ENGINEERING JUDGMENT Evaluate the design as an engineer, not just as a competitor.**D1. If you built Version 2, what ONE change would you make first, and why?**

State the expected performance improvement.

D2. What is the strongest evidence that your final design solved the original problem?

Use measurements, qualification results, competition performance, or observations.

D3. What did this project teach you about engineering design?

Focus on designing, building, testing, improving, or making decisions with evidence.

PART E - SELF-ASSESSMENT & TEACHER SCORE

Evidence	Design Process	Reflection	Completion
☐ Strong ☐ Developing ☐ Incomplete	☐ Strong ☐ Developing ☐ Incomplete	☐ Strong ☐ Developing ☐ Incomplete	☐ Strong ☐ Developing ☐ Incomplete
Evidence /10	Design Process /10	Communication /10	TOTAL /30
_____	_____	_____	_____