

CATAPULT ENGINEERING CHALLENGE

PERFORMANCE ASSESSMENT RUBRIC - 9 POINTS MAXIMUM

Scoring: Developing = 1 point | Proficient = 2 points | Master = 3 points



KNT Catapult Kit
Hands-on components
shown from the current
lesson package.

CRITERION	DEVELOPING - 1	PROFICIENT - 2	MASTER - 3
STEM Understanding	Needs support explaining potential/kinetic energy or how force creates motion.	Correctly explains potential and kinetic energy and connects them to the catapult launch.	Explains energy transfer clearly and uses the design/test results to connect force, motion, and performance.
Engineering Design & Evidence	Completes the build but needs support recording results, choosing a purposeful change, or using evidence.	Completes repeated tests, records results, changes one variable, and explains whether performance improved.	Uses organized evidence to compare baseline vs. redesign results, explains why the change mattered, and proposes a logical next iteration.
AI Literacy & Verification	Treats the AI response as automatically correct or cannot explain why testing is needed.	Explains that AI can recommend/predict but engineers must test the idea against evidence.	Evaluates where the AI recommendation matched or failed to match results and explains why real-world evidence should guide the final conclusion.

Score Summary

CRITERION	POSSIBLE	EARNED
STEM Understanding	3	—
Engineering Design & Evidence	3	—
AI Literacy & Verification	3	—
TOTAL	9	—

Teacher Feedback

GLOW - What did this student do well?

GROW - What would strengthen this student's engineering evidence or AI verification?

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