

Design Challenge Rubric

Assessment type (circle one): Self-assessment · Peer assessment · Teacher assessment

Category	1 — Beginning	2 — Approaching	3 — Meets	4 — Exceeds	Score
Design Process	Does not show evidence of EDP steps.	Shows some steps but skips criteria or ideation.	Defined criteria, generated multiple concepts, used the matrix to select one.	Defined criteria precisely, generated 3+ distinct concepts, justified selection with matrix data.	___/4
Floorplan & CAD Model	No TinkerCAD model, or model does not match the floorplan.	Model exists but has major sizing errors or missing zones.	Modeled an accurate floorplan in TinkerCAD with all five zones.	Floorplan model is accurate, clearly labeled, and closely matches the final prototype.	___/4
Prototype	Prototype is not built or not playable as a floorplan.	Prototype is partially built; missing zones or major structural issues.	A complete prototype built from available materials that matches the floorplan.	Prototype is sturdy, well-crafted, and clearly matches the CAD model.	___/4
Use of Data	No survey or cost data used.	Some data referenced but no clear menu reasoning.	Used survey and cost data to choose a popular, affordable menu.	Menu choice is strongly justified with specific data and clear reasoning.	___/4
Meets the RFP	Design does not address Riley's criteria.	Design meets 1–2 of the 5 RFP criteria.	Design is popular, affordable, efficient, safe, and buildable.	Design clearly and compellingly meets all 5 criteria with strong evidence.	___/4

STEM-ID · FOOD TRUCK TYCOON · 5TH GRADE DESIGN CHALLENGE
STUDENT HANDOUT 8

Presentation & Teamwork	Presentation is missing or only one member presents.	Presentation is present but lacks structure or evidence; not all members speak.	Clear 3–5 min presentation; all members contributed; argued from evidence.	Polished, persuasive presentation; all members contribute meaningfully and specifically.	___/4
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TOTAL SCORE: ___ / 24 _____

Strengths: _____

Areas to improve: _____