Paper session 6 · Complete the paper design cycle

Target / planning estimate

Complete the paper design cycle; 55–70 min or two blocks.

Print / prior evidence

Choose, Test and Improve a Thermal Protector Teach-the-Design-Challenge, student pp. 1–5; Requirements and predictions, questions 1–2, Check the complete brief, questions 1–2, A decision needs a priority, questions 1–2, Independent challenge · Record a proposal first, questions 1–2; Independent challenge · Separate redesign evidence, questions 1–2.

Feasible criteria and constraints, and revision. The prerequisite bridge supplies a standalone bridge.

Teacher demonstration

In the Model, check all trials, budget and thickness, and state a priority; guide the practice tradeoffs.

Learner work / collect

Initial independent record: proposal and test; then a separate New independent evidence reassessment of fictional redesigns. Collect feasibility, hypothesis, test and revised claim.

Next decision / continuation

Meet every requirement, questions 1–2 then Fresh recheck · What if none qualifies?, question 1; A proposal needs a relevant test, questions 1–2 then Fresh recheck · Whole design or one feature?, question 1; Later check · Changed requirements, question 1; Later check · One new environment record, questions 1–2 if unseen. Break after guided practice for continuation, not homework.