Ten extra projects

Optional larger ordinary invitations; no purchase or compulsory making. A supplied plan is not a performed project.

X01 · Mini measurement museum

Purpose: Build a three-item paper display of length, mass and capacity examples.

Prepare/try: Choose safe familiar descriptions, label unit/tool, add one source or observed reading for each, and give a complete spoken/written alternative. Add only wanted real measurement.

Observe/components: Check each attribute/unit/tool connection; record supplied versus observed. Success is explanation, not decorative polish.

Next teaching: If unit mismatches recur, teach one new object with two separate attribute questions.

X02 · Make a helper instruction

Purpose: Write one clear ruler instruction that someone could follow.

Prepare/try: Draft a zero/end/alignment instruction, test by directing a willing adult on a safe paper strip, then improve confusing wording. A paper-only draft is a plan, not a successful trial.

Observe/components: Record whose choices/action/reading occurred; compare instruction before/after without fixing silently.

Next teaching: If the start is missing, model a different strip from 2 to 9 cm.

X03 · Container label newsroom

Purpose: Explain why a drawn container's height is not enough.

Prepare/try: Invent two clearly labelled fictional capacities and a target; make a comparison card with words as well as shapes. Add a question about what remains unknown without a label.

Observe/components: Target/units/capacity comparison correct, model values declared. No real product capacity invented.

Next teaching: Use a new empty labelled container to separate current level from capacity.

X04 · Packing without a parcel

Purpose: Plan a paper packing decision including the box.

Prepare/try: Invent safe model contents and empty-box mass, choose a supplied limit, estimate then calculate total and margin. Explain what a real service would need to check separately.

SubjectNest original education © 2026 · CC BY 4.0

Observe/components: All parts present, coherent g quantities and contextual decision; no postal rule or purchase assertion.

Next teaching: Use an unrelated part-whole diagram if the box disappears from the total.

X05 · Estimate gallery

Purpose: Show two useful estimates for one collection.

Prepare/try: Use a safe own collection or a described model. Compare different known-group benchmarks and explain when a range is useful. Reveal the count only after estimates.

Observe/components: Benchmark/reason/purpose with honest uncertainty; don't score only closest.

Next teaching: Show a different group size when the estimate is an unsupported guess.

X06 · Error detective comic

Purpose: Tell the story of a maths error and its repair.

Prepare/try: Create an original fictional addition or marked-tool mistake, give a clue, then show a correct strategy/check in a separate worked-model panel. Include full words without the pictures.

Observe/components: Exact arithmetic and cause of error; creative presentation doesn't replace the maths.

Next teaching: Try an unrelated error requiring another check, rather than rehearse a held item.

X07 · Local fact refresh

Purpose: Make a dated example a teacher can review.

Prepare/try: Adult chooses a current primary public source or a real safe tool/label, records publisher/date/unit/status and a narrow question. Leave child response blank and attach original component criteria. If inaccessible, mark unconfirmed and use a labelled model.

Observe/components: Known/inferred/unknown distinct; actual source reviewed; no personal data/local cultural knowledge invented.

Next teaching: Replace a doubtful claim rather than guessing a missing live value.

X08 · Paper games kit

Purpose: Design a tabletop game piece that fits a described space.

Prepare/try: Choose safe paper parts, estimate/measure or use supplied lengths, calculate a total, then test only if wanted and suitable. Record a change after a real

trial separately from a proposal.

Observe/components: Unit/alignment/fit reasoning with action boundary. No real walking route or compulsory making.

Next teaching: Use a new fit problem if an estimate is treated as an exact size.

X09 · Different ways, same check

Purpose: Compare two valid addition/subtraction strategies.

Prepare/try: Choose a new fictional practical problem, solve by partitioning and counting-on or a number line, then explain how an inverse check connects to its parts. Digital checking may follow the child's own work.

Observe/components: Conserved values and contextual unit; calculator output isn't evidence of the prior strategy.

Next teaching: Return to grouped place value if a component is omitted.

X10 · Your tiny maths help desk

Purpose: Offer one useful, reviewable maths idea.

Prepare/try: Combine one question, known/source facts, estimated answer, exact reasoning, decision and remaining uncertainty. Use the edit/proposal route with an anonymised model, not a child's identifiable work.

Observe/components: Full useful mathematical chain, honest provenance and original rights; different review still needed before integration.

Next teaching: Adult chooses the single weakest component for another unrelated teaching turn.

Edit/propose · Full factual/local review

SubjectNest original education © 2026 · CC BY 4.0