Ten supplementary projects

Optional ordinary invitations, useful even as one small paper/spoken plan. More activity is not automatically more achievement. Suitable real making/reader use is voluntary and recorded only if it occurs.

X01 · Fraction label studio

Purpose: Create labels that name the whole.

Prepare and try: Choose two safe fictional paper jobs, one with halves and one with quarters. Make/describe clear labels and unequal-part counterexamples. Keep before/after if a real willing reader tries them.

Component observations: Whole/equal-size parts/unit fraction; actual reader evidence separate.

Specific next teaching: If size is omitted, compare a new equal and unequal partition.

X02 · Set-to-strip translator

Purpose: Show one fraction in two ways.

Prepare and try: Choose thirds or quarters with a suitable complete collection. Represent a unit and a multiple using equal groups and an equal strip; give full words without pictures.

Component observations: Each representation conserves its named whole and denominator; no copied decoration criterion.

Specific next teaching: If group size becomes denominator, use a smaller new set.

X03 · Value-label museum

Purpose: Explain a real fact with original geometry.

Prepare and try: Adult reviews F01. Use original text-only equal value labels for$1=100 cents; ten 10 cent labels or five 20 cent labels. Explain what is derived and what the Mint actually states. No actual coins or coin artwork.

Component observations: Equal-value whole/unit fraction/multiple; not coin area or a money transaction.

Specific next teaching: Return to a plain strip if unit/value count is confusing.

X04 · Number-line game without a race

Purpose: Make a quiet clue someone can follow.

Prepare and try: Choose a 0–1 line with 2,3,4,5 or 10 equal gaps. Give a neutral multiple clue, check it and alter one clue. Movement, sound and a second player are optional.

Component observations: Equal intervals/endpoints/parts; no timed performance.

Specific next teaching: If ticks are counted, name the intervals in a new line.

X05 · Ready-and-needed project

Purpose: Create a small useful guide.

Prepare and try: Choose a safe fictional display or real adult-approved paper job. Label whole/equal parts/unit/multiple/completion; test only if wanted/suitable. Keep actual action separate from proposed action.

Component observations: Own decisions and same-denominator completion, original version and specific revision.

Specific next teaching: Teach equality or missing-whole separately before adding a second job.

X06 · Small collection reporter

Purpose: Choose a question with usable records.

Prepare and try: Choose a non-personal safe object question; define unit/category rule and method. Observe/collect/access data, recording exactly which happened. Create a table and one context-limited statement.

Component observations: Question/method/acquisition/recording/interpretation conditional ST01/ST03 components.

Specific next teaching: If records omit items, design a one-record-at-a-time check.

X07 · Unknown detective

Purpose: Show whyzero and unknown are different.

Prepare and try: Make two original fictional lists: one fully known with an empty category and one with an unavailable record. Build both tables, qualify each zero and state what could change.

Component observations: Known zero/unavailable/denominator of records explicit; no hidden-source fake certainty.

Specific next teaching: Use a different missing-data context if the distinction is only verbal.

X08 · Counts-of-counts workshop

Purpose: Give frequencies a useful meaning.

Prepare and try: Create a safe per-card whole-number count question. Record a value for each item, then frequencies. Explain a repeated value row and the difference between item total and total marks.

Component observations: Discrete variable/value/frequency/units; actual observation distinct from provided fiction.

Specific next teaching: Use one item then two same-value items if frequencies confuse.

X09 · Dated local service guide

Purpose: Make a source someone can review.

Prepare and try: Adult reviews an official local service page without guessing current hours. Record URL/publisher/place/period/check date/supported/inferred/unknown/rights. Choose a narrow classification question and leave the learner response empty.

Component observations: One entry not necessarily one site; changes require a new source record, not silent replacement.

Specific next teaching: If unavailable, use a labelled fiction or dated historical list with its limit.

X10 · Your little maths help desk

Purpose: Offer one anonymised useful teaching idea.

Prepare and try: Create a fraction guide or table lesson with full model/own blank/component criteria/full words/rights. Prepare an edit proposal; review is needed before integration. Do not send identities or held keys to ordinary readers.

Component observations: Useful purpose, accurate maths, original source/exceptions and a concrete next teaching move.

Specific next teaching: Choose one unresolved component, teach it with unrelated facts, keep a truly unused held reserve.

Dated local review · Edit and propose

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