

NOVA & MAYA - Learning Companion

Chapter 12 Printable Split-Clue Map Packet

Human Instinct, Machine Map

Before printing

- Print one-sided at 100% size. An adult handles scissors.
- Use only the paper map and tokens. Never explore, test, hide in, open, climb, crawl through, or move anything in a real building.
- Keep route results, check results, and the adult key covered until their reveal points.
- If a real place is uncertain, stop and ask a trusted adult.
- Multiple first routes may be reasonable before current results are revealed.

No-printer version

Show one stage at a time. Children name cards and routes while an adult records. Cover all later-result pages.

Mission facts

- Deliver a lightweight fictional exhibit cart from START to EXHIBIT HALL.
- Cart width: 75 cm. For this fictional mission, staff require an opening of at least 85 cm. Green's 82 cm point therefore requires an approved transfer plan.
- PIP width: 48 cm. The group stays together and uses a step-free, calm route.

Exhibit Delivery Base Map

Move one paper route token from START to EXHIBIT HALL. Distances are total route lengths.

B	B	B	B	EXHIBIT HALL		
B		Y	Y	Y/G		
B		Y ?		G		
START	Y	Y		G		
G	G	G	G 82 cm	G		

Blue: 18 m | Yellow: 24 m | Green: 30 m | Y/G = shared segment | ? = current status not yet checked

Route Tokens

BLUE TOKEN

Shortest on the stored map

GREEN TOKEN

Longer route on current map

YELLOW TOKEN

Old passage behind mural

Younger Clue Cards - Deal All

CLUE 1 - MAYA PHOTO A present-day photo shows a thin seam through the mural's yellow sun.	CLUE 2 - NOVA BLUEPRINT A 32-year-old blueprint shows a 24 m Yellow passage behind the mural.
CLUE 3 - ELI DIAGRAM An old mechanism diagram shows a manual latch beside the mural seam.	CLUE 4 - CURRENT MAP Green is marked open and step-free. Checked today at 9:05.
CLUE 5 - BLUE DISTANCE Blue is 18 m, the shortest route on a two-year-old delivery map.	CLUE 6 - GREEN WIDTH Green's narrow point is 82 cm. Staff require at least 85 cm for this cart, so Green needs an approved transfer plan.
CLUE 7 - GROUP NEED The group stays together, moves calmly, and keeps the cart step-free.	CLUE 8 - YELLOW STATUS The mural seam may be a passage, but current access is not yet authorized or checked.

Younger Route Results - Reveal Only the Chosen Route

BLUE RESULT

A temporary exhibit wall installed at 8:30 blocks Blue. Staff have closed it until 2:00.

YELLOW RESULT

The seam and latch are real, but the current passage status and opening width are unknown. Stop and request an authorized staff check.

GREEN RESULT

Green is open and step-free, but its 82 cm narrow point does not meet the required 85 cm opening for this cart. Green requires an approved plan to transfer the exhibit into smaller carried boxes.

DECIDE AGAIN

KEEP / REVISE / REPLACE: _____

Reason: _____

Shared route: _____

Later Authorized Reveal - Use Only After Children Ask for a Staff Check

DR. VALE / STAFF CONFIRMATION - 9:18

Authorized staff open and inspect Yellow. It is clear, step-free, quiet, 110 cm wide, and approved for the lightweight exhibit cart. The latch must be operated by staff.

THINK AGAIN

KEEP / REVISE / REPLACE: _____

Which earlier clues predicted this possibility without proving it? _____

Final shared route and fallback: _____

Older Evidence Cards

Sources

E1 - BLUEPRINT 32 years old Yellow passage behind mural cannot prove present access.	E2 - CURRENT MAP Updated today 8:50 Green open Yellow omitted cannot prove omission means removal.
E3 - PRESENT PHOTO Taken today 9:00 seam through mural cannot prove it opens.	E4 - STRUCTURAL RECORD Renovation record 12 years old steel frame retained behind mural cannot prove current latch works.
E5 - CLOSURE NOTICE Today 8:30 Blue blocked until 2:00 current staff notice.	E6 - MEASUREMENTS Green 82 cm; cart 75 cm; staff-required opening 85 cm current measurements.
E7 - GROUP NEEDS Stay together; step-free; calm pace; lightweight cart remains supervised.	E8 - WHEEL TRACKS Recent unknown 40 cm wheel spacing near mural interesting; identity and relevance unknown.

Older Evidence Ledger

CARD	SOURCE / TIME	SUPPORTS	CANNOT PROVE	CONFIDENCE
E1				
E2				
E3				
E4				
E5				
E6				
E7				
E8				

Older Check Cards - Choose One

Checks

CHECK 1

Ask authorized staff to inspect Yellow's opening, route, and latch.

CHECK 3

Confirm Blue's closure with the current staff schedule.

PREDICTION

Chosen check: _____

Its result could change:

CHECK 2

Re-measure Green's narrow point and cart clearance.

CHECK 4

Review the latest authorized structural inspection for Yellow.

Older Check Results - Reveal Only the Matching Result

Results

RESULT 1

Staff inspect Yellow at 9:18: clear, step-free, quiet, 110 cm wide; latch works and is staff-operated.

RESULT 2

Green is 82 cm; cart is 75 cm; staff require an 85 cm opening for this cart, so Green needs an approved transfer plan.

RESULT 3

Blue closure is current: temporary exhibit wall remains until 2:00.

RESULT 4

Inspection six months ago: Yellow frame and passage were sound; current obstruction and latch status were not checked.

ROUTE DECISION

KEEP / REVISE / REPLACE:

Chosen route:

Unresolved fact:

Safe fallback:

Decision and Revision Mat

KEEP	REVISE	REPLACE

Position Cards

POSITION A

When current observations and an old map disagree, the safest plan should give more weight to what can be verified now.

POSITION B

An old map can remain the best starting point when present observations are incomplete, as long as the team checks how the place may have changed.

UNSURE

I need another reason, example, or piece of evidence.

EVIDENCE

Card: _____ Reason: _____

COUNTEREXAMPLE

A time the other position might work better: _____

MOVE

I stayed / moved because: _____

Flexible Adult Answer Key

- Before route results, Blue, Yellow, or Green may be defended. Do not praise guessing Yellow.
- Blue is shortest but currently blocked. Green is verified open but its 82 cm point fails the mission's required 85 cm opening; it needs a staff-approved transfer plan. Yellow is a promising hypothesis until authorized staff verify it.
- Maya's photo, NOVA's old blueprint, Eli's mechanism record, and the structural record support checking Yellow; none proves current access alone.
- For older learners, Check 1 supplies the strongest current decision evidence. Checks 2 and 3 clarify Green and Blue. Check 4 increases confidence but remains older than a present inspection.
- Wheel tracks remain unresolved. A strong plan records them without inventing an identity or treating them as route proof.
- People and AI can both observe, calculate, remember, and err. Card differences reflect access and attention, not fixed human-versus-machine abilities.

Adult debrief

Disclose the staged route results. Ask which source, age, group need, or check changed the route. Accept a supported fallback and a deliberately unresolved clue.