

NOVA & MAYA - Learning Companion

Chapter 8 Printable Route Packet

After-Hours Mode

Before printing

- Print one-sided at 100% size. An adult handles scissors.
- Use the small paper TEAM route marker only. Never place a child in a pretend trapped-person role.
- Keep reveal and answer cards face-down until children ask or spend a question token.
- In a real emergency, children follow trusted adults and official safety instructions.
- Never hide or misstate real safety information. Explain after the game which fictional facts were staged.
- A timer is optional and must remain playful. Stop it if anyone is uncomfortable.

No-printer version

Read from a screen and cover later cards. Children can direct the token or say their route choice.

Packet contents

- Younger Route Board and staged reveals
- Four shared-procedure cards
- Two complete older-child decision cases
- Question, answer, decision, and optional strategy-token cards
- Position cards

Younger Route Board

Place the small TEAM marker on START. Follow B for Blue or G for Green only after the group decides.

		B	B	B	FINISH	
		B		G	G	
B	B	B ?		G		
B		G	G	G		
B		G				
START	G	G				

? = maintenance marker; open/closed status is not shown.

[TEAM] CUT OUT - SMALL ROUTE MARKER

FIRST MESSAGE

The system recommends the BLUE route.

FIRST CHOICE

FOLLOW NOW

or

STOP AND ASK

Younger Route Reveals

REVEAL 1 - WHY BLUE?

Blue reaches FINISH in about 43 seconds. Green takes about 55 seconds.

REVEAL 2 - WHAT IS UNKNOWN?

Blue passes a temporary maintenance marker, but the card does not say whether the passage is open. Green is verified open.

Shared Procedure Cards

STOP

Pause before moving the token.

EXPLAIN

Show the goal and the reason for the recommendation.

VERIFY

Check the fact that could change the choice.

DECIDE

A person or team makes the final choice and can explain it.

Older Case 1: Storm Routes

STORM ROUTE PUZZLE - FICTIONAL

Goal: Move the paper team to a verified exit.

Blue: 43 seconds; system confidence 92%.

Green: 55 seconds; system confidence 84%.

Red: 49 seconds; system confidence 89%.

First round: Ask as many supplied questions as your team needs.

Optional Strategy-Replay Tokens

QUESTION TOKEN 1

Use only in the optional replay after an unlimited-question round.

QUESTION TOKEN 2

Use only in the optional replay after an unlimited-question round.

QUESTION TOKEN 3

Use only in the optional replay after an unlimited-question round.

Decision Cards

KEEP THE RECOMMENDATION

Choose after reviewing the answers you requested.

CHANGE THE ROUTE

Choose after reviewing the answers you requested.

PAUSE FOR ANOTHER CHECK

Choose after reviewing the answers you requested.

Decision Record

Chosen route or action: _____

One verified fact: _____

One unchecked fact: _____

One possible consequence: _____

Final decision-maker: _____

Case 1 Questions - Ask Any You Need

1. What goal did the system use?

Predict how this answer might change the choice.

2. What live fact supports each route?

Predict how this answer might change the choice.

3. What remains unchecked?

Predict how this answer might change the choice.

4. What could happen if the chosen route is blocked?

Predict how this answer might change the choice.

5. How recent is the route information?

Predict how this answer might change the choice.

6. What does the confidence score include or leave out?

Predict how this answer might change the choice.

7. Who has the job of making the final choice?

Predict how this answer might change the choice.

Answer Cards - Keep Covered

ANSWER 1

GOAL: Reach an exit quickly. The system was not told that every corridor must have live open/closed confirmation.

ANSWER 2

LIVE FACTS: Green is verified open. Blue has a maintenance marker without current status. Red's door sensor is reporting but has not been physically checked.

ANSWER 3

UNCHECKED FACTS: Blue may be blocked. Red's sensor may be stale. The puzzle gives no current obstacle report for either.

ANSWER 4

CONSEQUENCE: A blocked route requires backtracking and adds about 30 seconds. In a real emergency, consequences could matter more than speed.

ANSWER 5

RECENCY: Green was checked two minutes ago. Blue's map was updated yesterday. Red's sensor last confirmed open two hours ago.

ANSWER 6

CONFIDENCE: The score uses route length and old reliability. It does not include the missing maintenance status or a physical door check.

ANSWER 7

RESPONSIBILITY: The human team has the job of making the final choice. The system recommends; it does not choose for the people affected.

Older Case 2: Rainy-Day Footbridges

FOOTBRIDGE PUZZLE - FICTIONAL

Recommendation: Use the East footbridge.

How sure the system says it is: 95%.

Known evidence: East is four minutes shorter and passed its last scheduled inspection.

Unchecked fact: Heavy rain began after that inspection, and the live water-level sensor is offline.

Alternative: West is four minutes longer and was visually confirmed open two minutes ago.

Decision Cards

KEEP EAST

Choose after reviewing the answers you requested.

CHANGE TO WEST

Choose after reviewing the answers you requested.

PAUSE FOR ANOTHER CHECK

Choose after reviewing the answers you requested.

Case 2 Questions - Ask Any You Need

1. What goal did the recommendation use?

Predict how this answer might change the choice.

2. What changed after the last inspection?

Predict how this answer might change the choice.

3. What evidence is current?

Predict how this answer might change the choice.

4. What could happen if East is blocked?

Predict how this answer might change the choice.

5. What does the 95% leave out?

Predict how this answer might change the choice.

6. Who has the job of making the final choice?

Predict how this answer might change the choice.

Case 2 Answer Cards - Keep Covered

ANSWER 1

GOAL: Minimize travel time. The system was not told to require live weather confirmation.

ANSWER 2

CHANGE: Heavy rain began after the inspection. That new condition could matter even though the old inspection was accurate.

ANSWER 3

CURRENT EVIDENCE: West was visually confirmed open two minutes ago. East has no live view, and its water sensor is offline.

ANSWER 4

CONSEQUENCE: If East is blocked, the paper team must return and loses eight minutes. West costs four minutes now but avoids that backtrack.

ANSWER 5

CONFIDENCE: The 95% uses distance and inspection history. It does not include the new rain or the offline sensor.

ANSWER 6

RESPONSIBILITY: The human team has the job of making the final choice and explaining which tradeoff it accepted.

CASE 2 DECISION RECORD

KEEP, CHANGE, or PAUSE: _____

Known fact used: _____

Unchecked fact: _____

Tradeoff or possible consequence: _____

Final decision-maker: _____

Short reason: _____

Position Cards

POSITION A

In a real emergency, a trusted system's clear warning may deserve quick action before every detail is explained.

POSITION B

Even when time is short, people should pause long enough to learn what is known, what is uncertain, and who is responsible for the choice.

UNSURE

I need another reason or example.

FINAL REFLECTION

The one thing I would never skip in an important decision is: _____