

Lunar Cargo Manifest

HOST ONLY - preparation and story

Includes answers. Keep these pages with an adult.

The cargo desk has a corrected stock ledger and out-of-order unloading steps. Match the crew to their containers, then place the five checks in the manifest slots. Collect five named badge digits and use the final sheet. Every clue is on the table; ask the host for one hint at a time.

1. Print one player pack and two record sheets per team. Keep the host answers and all three hint levels with the adult.
2. Keep every clue as a full sheet at one table. Put the final sheet face down until all five results are recorded. Nothing needs cutting, folding or hiding.
3. Give each child a pencil. Choose a reader, recorder and checker, and swap jobs after each clue. Use one team for 2-4 children or two teams for 5-6.

Players: 4; teams: 1. Print one player and prop set per team. Invitations and certificates: 4 each.

Paper and pencils are enough. Keep whole sheets at one table; nothing needs cutting, folding or hiding.

Lunar Cargo Manifest

HOST ONLY - solution guide

1. Stock: 5

Known stock: $10 + 4 - 1 = 13$. Closing stock 18 minus 13 gives the missing return 5. Cancelled +7 never arrived.

2. Crew: 8

Ali has Seeds; Ren has Tools; Bo has Food. Bo's item gives 8.

3. Unload: 6

The only order is Scan cargo > Weigh crate > Open dock > Unload box. Position 3 carries 6.

4. Mass: 5

Remove 4 from 19; share 15 among 3 parcels to get 5. Check $2 \times 5 + 3 = 13$.

5. Slot: 8

C3, D1, A3, B1 reads DOCK. The conversion table gives 8.

6. Final: 88655

E2 > B2 > C2 > A2 > D2

Lunar Cargo Manifest

HOST ONLY - timeline and paper check

3 minutes: Read the story, show the badge record and choose roles.

5 minutes: Solve Stock. Offer one hint level at a time if wanted.

6 minutes: Solve Crew. Offer one hint level at a time if wanted.

5 minutes: Solve Unload. Offer one hint level at a time if wanted.

5 minutes: Solve Mass. Offer one hint level at a time if wanted.

5 minutes: Solve Slot. Offer one hint level at a time if wanted.

5 minutes: Use the five results on the final sheet.

2 minutes: Read the ending and thank each teammate.

Paper completion: check each badge against the solution guide, then check the final code. No device is required.

The cargo manifest is repaired. The moon base can release its paper supplies.
Thank your team for checking the evidence together. Confirmed final control code: 88655.

Duration and ages are estimates. Adjust pace and offer help for your group.

Lunar Cargo Manifest

Player clue 1: Stock | Team 1

The cargo desk has a corrected stock ledger and out-of-order unloading steps. Match the crew to their containers, then place the five checks in the manifest slots. Find five badge digits, then use the final sheet. Help each other and ask for hints.

Stock desk: A return entry lost its amount. Use the opening and closing stock to find the missing return. Apply DONE entries; ignore the CANCELLED plan.

Opening stock: 10. Closing stock: 18.

Received: +4 DONE
Planned: +7 CANCELLED
Issued: -1 DONE
Returned: ? DONE

Missing return = ? units. Ignore cancelled plans.

Stock badge: _____

Lunar Cargo Manifest

Player clue 2: Crew | Team 1

Crew desk: Each person has ONE different item. Use all four NOT rules. Find Bo's item and copy its digit.

Food digit 8	Tools digit 1	Seeds digit 4
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People: Ali, Ren, Bo

Ali does NOT have Tools.

Ren does NOT have Seeds.

Ren does NOT have Food.

Bo does NOT have Seeds.

Find Bo's item. Each item is used once.

Crew badge: _____

Lunar Cargo Manifest

Player clue 3: Unload | Team 1

Unload desk: Combine every BEFORE rule to order the four actions. Write positions on the whole-sheet cards. Read position 3.

Scan cargo [2]	Open dock [6]
Weigh crate [4]	Unload box [8]

- Scan cargo BEFORE Open dock
- Weigh crate BEFORE Unload box
- Open dock BEFORE Unload box
- Scan cargo BEFORE Weigh crate
- Weigh crate BEFORE Open dock

Read position 3 (positions start at 1).

Unload badge: _____

Lunar Cargo Manifest

Player clue 4: Mass | Team 1

Mass desk: Every parcel has the same whole-number weight. Remove loose units, find ONE parcel and check the second rule.

3 parcels + 4 loose units = 19 units



2 parcels + 3 loose units = 13 units

One parcel = ? units. Whole numbers 1-9.

All parcels have equal weight.

Mass badge: _____

Lunar Cargo Manifest

Player clue 5: Slot | Team 1

Slot desk: Read the letter at each coordinate, in order. Letter = column; number = row. Convert the complete word using the printed table.

Columns: A, B, C, D. Rows: 1, 2, 3.

1	Y	K	E	O
2	D	G	K	N
3	C	M	D	T

DOCK = 8
BEAM = 1
STAR = 4

READ COORDINATES IN ORDER:
C3 > D1 > A3 > B1

Slot badge: _____

Lunar Cargo Manifest

Player clue 6: Final | Team 1

Copy each badge digit into its named slot. Read the slots in the printed order; join all five digits.

A2: Stock ?	B2: Crew ?	C2: Unload ?
D2: Mass ?	E2: Slot ?	

READ SLOTS IN THIS ORDER:

E2 > B2 > C2 > A2 > D2

Final badge: _____

Need help? Ask your host for one hint at a time.

Lunar Cargo Manifest

Hint cards - level 1 (spoilers; keep with host)

1. Stock

The missing amount is a return into stock. The cancelled delivery never happened.

2. Crew

No item can belong to two people. Cross out each forbidden pairing.

3. Unload

The printed cards are deliberately out of order.

4. Mass

Loose units are not parcels. Every parcel has equal weight.

5. Slot

Columns A-D run left to right. Rows 1-3 run top to bottom.

6. Final

Keep all five named badge results beside this sheet.

Lunar Cargo Manifest

Hint cards - level 2 (spoilers; keep with host)

1. Stock

Start with 10. Apply +4 then -1. Ignore the cancelled +7.

2. Crew

Ren cannot have two items, so Ren must have Tools.

3. Unload

Scan cargo must come first. Work out which action comes directly after it.

4. Mass

Remove 4 loose units from 19. That leaves 15 for the equal parcels.

5. Slot

The first coordinate C3 means column C, row 3. Its letter is D.

6. Final

E2 is read first; it holds Slot.

Lunar Cargo Manifest

Hint cards - level 3 (spoilers; keep with host)

1. Stock

The known entries leave 13. How much must return to reach the closing stock of 18?

2. Crew

Cross Tools off for the other two people. Apply the last NOT rule, then find Bo's item.

3. Unload

The first two actions are Scan cargo, then Weigh crate. Finish the chain and read position 3.

4. Mass

Share 15 equally among 3 parcels. Substitute one parcel's weight into the second rule.

5. Slot

Begin with D, then read D1, A3, B1 in order. Use the complete word's conversion row.

6. Final

Read slots E2, B2, C2, A2, D2. Copy every stored digit in that order, including zero.

Lunar Cargo Manifest

Team 1 badge record (no cutting needed)

Write a digit beside each badge as you solve its clue.

Stock: _____

Crew: _____

Unload: _____

Mass: _____

Slot: _____

Reader: reads the clue. Recorder: writes the digit. Path finder: traces routes. Swap roles every clue.

Lunar Cargo Manifest

Team 1 paper unlock card

Our five badges are ready. We used the final sheet to find this code:

Host: compare this with your solution guide. When it matches, read the ending and celebrate.

No physical lock or prize is required. You may draw a celebration star on this card.

Lunar Cargo Manifest

You're invited to a birthday mystery!

Join Birthday Explorer for Lunar Cargo Manifest.

Rebuild the moon-base cargo release code.

Date: _____

Time: _____

Place: _____

Bring your curiosity. Paper and pencils are provided. Work together, share ideas and solve six clues.

Designed for ages 8-10. Estimated 30-45 minutes.

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Lunar Cargo Manifest

Birthday Mystery Explorer

Presented to Birthday Explorer

Team member: _____

For completing Lunar Cargo Manifest with curiosity,
teamwork and kindness.

The cargo manifest is repaired. The moon base can release its
paper supplies. Thank your team for checking the evidence together.
Confirmed final control code: 88655.

Date: _____

Host signature: _____

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