

Birthday Starship

HOST ONLY - preparation and story

Includes answers. Keep these pages with an adult.

The birthday team has arrived, but one important part of the celebration is missing. Find the birthday supplies at the moon base. Collect five named badge digits, then use the final sheet to finish your mission. All the clues you need are printed here. Work together and ask for a hint whenever you want.

1. Print one player pack and two prop sheets per team. Keep all host and hint pages with an adult.
2. Put clue pages 1-5 at the table. Place the final sheet face down until the five badges are collected.
3. Share pencils and choose a reader, recorder and path finder. Swap jobs after each clue.

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

No locks, purchases or cutting required. Keep all clues at a low table. Scissors are optional and for adults only.

Birthday Starship

HOST ONLY - solution guide

1. Stars: 4

Count each star once; ignore the other shapes.

2. Navigation: 2

Trace the orthogonal path from S; the other exits are separated by walls.

3. Log: 7

Pack bags, Board ship, Lift off, Land on moon. The third card, Lift off, carries 7.

4. Rocket: 3

Replace every symbol with its letter, including repeated symbols. Convert the decoded word using the printed table.

5. Moon: 6

Only one card has craters=yes and tail=no.

6. Final: 34627

badge-order: Rocket > Stars > Moon > Navigation > Log. Keep leading zeroes.

Birthday Starship

HOST ONLY - timeline and paper check

3 minutes: Read the opening story and explain the badges.

5 minutes: Solve Stars; offer one hint at a time.

5 minutes: Solve Navigation; offer one hint at a time.

5 minutes: Solve Log; offer one hint at a time.

5 minutes: Solve Rocket; offer one hint at a time.

5 minutes: Solve Moon; offer one hint at a time.

5 minutes: Combine the badges on the final sheet.

2 minutes: Read the ending and award certificates.

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

Mission complete! Birthday Starship is ready for its birthday celebration. Thank your team for sharing ideas and helping one another.

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

Birthday Starship

Player clue 1: Stars | Team 1

Welcome, birthday explorers! Find the birthday supplies at the moon base. Find five badge numbers. Use them on the last page. You can help each other and ask me for hints.

Count only the star shapes. Write that number on your Stars badge.



star



circle



star



triangle



star



circle



triangle



star



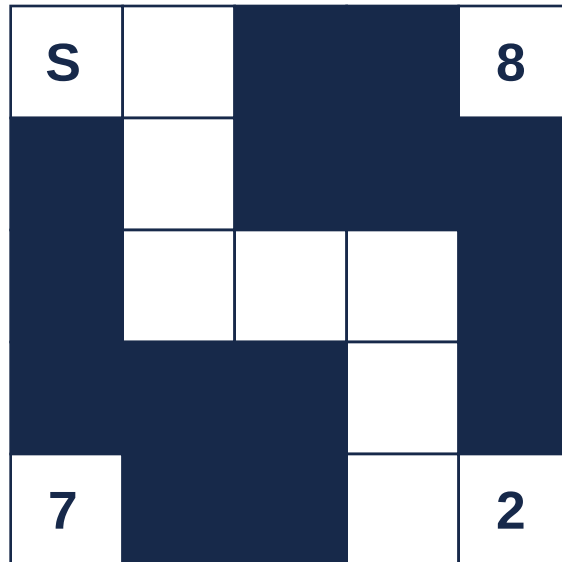
circle

Stars badge: _____

Birthday Starship

Player clue 2: Navigation | Team 1

Start at S. Follow open squares without moving diagonally. Which numbered exit can you reach? Record its label for Navigation.



White = open. Dark = wall. No diagonal moves.

Row / column: start at top left; each cell is one step.

Navigation badge: _____

Birthday Starship

Player clue 3: Log | Team 1

Use the BEFORE rules to put the four cards in order. Take the number on card 3.

Pack bags [9]

Board ship [1]

Lift off [7]

Land on moon [5]

Pack bags BEFORE Board ship

Board ship BEFORE Lift off

Lift off BEFORE Land on moon

Read position 3 (positions start at 1).

Log badge: _____

Birthday Starship

Player clue 4: Rocket | Team 1

Use the symbol key to decode the message. Use the word-to-number table to turn the word into a digit.



triangle = T



square = H



circle = R



star = E



triangle



square



circle



star



star

THREE = 3

Rocket badge: _____

Birthday Starship

Player clue 5: Moon | Team 1

Choose the card that matches BOTH required properties. Copy its digit.

Rule: craters = yes

Rule: tail = no

Moon - digit 6

craters: yes / tail: no

Sun - digit 8

craters: no / tail: no

Comet - digit 1

craters: yes / tail: yes

Moon badge: _____

Birthday Starship

Player clue 6: Final | Team 1

Read your badge digits in the printed order below. Join them without spaces to finish the mission.

Rocket ?	Stars ?	Moon ?	Navigation ?	Log ?
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Read left to right. Keep every digit, including zero.

Final badge: _____

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

Birthday Starship

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

1. Stars

Look for the word star.

2. Navigation

Begin at S, not at an exit.

3. Log

Use the written rules rather than the printed card order.

4. Rocket

The same symbol always means the same letter.

5. Moon

A card must satisfy both rules.

6. Final

Keep the five badge results visible. Every number has a badge name.

Birthday Starship

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

1. Stars

Point to one star at a time.

2. Navigation

Move one square up, down, left or right. Walls cannot be crossed.

3. Log

Find the card that has no earlier card.

4. Rocket

Write one letter under every symbol.

5. Moon

Cross out any card that fails one condition.

6. Final

Use the order, slots, route or matching columns printed on this page.

Birthday Starship

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

1. Stars

Mark the star shapes as you count, then check again.

2. Navigation

Follow the open corridor and check each junction. Only one exit connects to S.

3. Log

Place each card immediately after its predecessor; count positions from one.

4. Rocket

Read the letters from left to right and use the printed number table.

5. Moon

Check the remaining card against both properties before copying its digit.

6. Final

Start with the Rocket badge, then follow the printed rule.

Birthday Starship

Team 1 badge record (no cutting needed)

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

Stars: _____

Navigation: _____

Log: _____

Rocket: _____

Moon: _____

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

Birthday Starship

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.

Birthday Starship

You're invited to a birthday mystery!

Join Birthday Explorer for Birthday Starship.

Find the birthday supplies at the moon base.

Date: _____

Time: _____

Place: _____

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

Designed for ages 6-8. Estimated 30-40 minutes.

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Birthday Starship

Birthday Mystery Explorer

Presented to Birthday Explorer

Team member: _____

For completing Birthday Starship with curiosity, teamwork and kindness.

Mission complete! Birthday Starship is ready for its birthday celebration. Thank your team for sharing ideas and helping one another.

Date: _____

Host signature: _____

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