

Rainbow Bakery

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. Rebuild the paper bakery order for a birthday picnic. 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.

Rainbow Bakery

HOST ONLY - solution guide

1. Recipe: 5

The rules form one chain: Wrap the gift > Write the label > Carry the gift > Deliver the gift. Read card 3.

2. Trays: 7

Add 2 to the final printed number. The allowed rule is stated on the sheet.

3. Weights: 1

Subtract 0 from 2, then divide by 2. Check the result in the balance rule.

4. Menu: 4

Locate the single BOOK occurrence. The next cell contains the badge digit; other letters are filler.

5. Napkin: 3

Reflection pairs column 1 with 4 and column 2 with 3. Add the marked left cell and its reflected right cell.

6. Final: 13547

badge-order: Weights > Napkin > Recipe > Menu > Trays. Keep leading zeroes.

Rainbow Bakery

HOST ONLY - timeline and paper check

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

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

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

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

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

5 minutes: Solve Napkin; 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! Rainbow Bakery 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.

Rainbow Bakery

Player clue 1: Recipe | Team 1

Welcome, birthday explorers! Rebuild the paper bakery order for a birthday picnic. Find five badge numbers. Use them on the last page. You can help each other and ask me for hints.

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

Carry the gift [5]

Wrap the gift [1]

Deliver the gift [7]

Write the label [3]

Wrap the gift BEFORE Write the label

Write the label BEFORE Carry the gift

Carry the gift BEFORE Deliver the gift

Read position 3 (positions start at 1).

Recipe badge: _____

Rainbow Bakery

Player clue 2: Trays | Team 1

The rule is: add 2 each time. What comes next? Write the next number.

Start after badges: Recipe.

RULE: add 2 each time

1	3	5	?
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Trays badge: _____

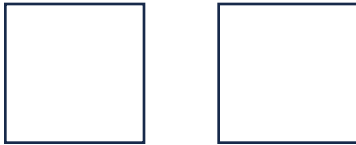
Rainbow Bakery

Player clue 3: Weights | Team 1

Every parcel weighs the same whole number from 1 to 9. Use the balance rule to find the weight of ONE parcel.

Start after badges: Recipe.

2 parcels + 0 loose units = 2 units



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

All parcels have equal weight.

Weights badge: _____

Rainbow Bakery

Player clue 4: Menu | Team 1

Find BOOK reading left to right only. Copy the digit immediately AFTER the word.

Start after badges: Trays.

Find BOOK; only read to the RIGHT.

X	X	X	X	X	X	X	X
X	B	O	O	K	4	X	X
X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X

Answer = digit in the next square after the word.

Menu badge: _____

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Player clue 5: Napkin | Team 1

Imagine folding the right half onto the left along the dashed line. At the starred square, add the two numbers that meet. No cutting or folding is needed.

Start after badges: Trays.

2	1	2	4
* 2	0	3	1

Fold RIGHT half onto LEFT. * marks the target.

Paper-only alternative: pair 1 with 4 and 2 with 3.

Napkin badge: _____

Rainbow Bakery

Player clue 6: Final | Team 1

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

Weights ?	Napkin ?	Recipe ?	Menu ?	Trays ?
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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.

Rainbow Bakery

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

1. Recipe

Use the written rules rather than the printed card order.

2. Trays

Every step adds 2.

3. Weights

All parcels have the same weight.

4. Menu

Read rows from left to right; look for B.

5. Napkin

The middle dashed line is the fold.

6. Final

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

Rainbow Bakery

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

1. Recipe

Find the card that has no earlier card.

2. Trays

Start with the last number, not the first.

3. Weights

Remove the loose weight from the total first.

4. Menu

Do not search diagonally or backwards.

5. Napkin

The outside right square meets the outside left square.

6. Final

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

Rainbow Bakery

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

1. Recipe

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

2. Trays

Add once more; do not skip a step.

3. Weights

Share the remaining weight equally among the parcels.

4. Menu

Once the whole word matches, read the very next cell.

5. Napkin

Find the mirror partner of the marked square and add their two printed values.

6. Final

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

Rainbow Bakery

Team 1 badge record (no cutting needed)

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

Recipe: _____

Trays: _____

Weights: _____

Menu: _____

Napkin: _____

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

Rainbow Bakery

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.

Rainbow Bakery

You're invited to a birthday mystery!

Join Birthday Explorer for Rainbow Bakery.

Rebuild the paper bakery order for a birthday picnic.

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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Rainbow Bakery

Birthday Mystery Explorer

Presented to Birthday Explorer

Team member: _____

For completing Rainbow Bakery with curiosity, teamwork and kindness.

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

Date: _____

Host signature: _____

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