

Art Studio Color Case

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. Place the birthday drawings in their matching exhibit spaces. 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.

Art Studio Color Case

HOST ONLY - solution guide

1. Sketch: 3

Align each position in strip A with the same position in strip B. Count every unequal pair once.

2. Label: 1

The matching card has both triangle and stripes; matching just one property is insufficient.

3. Paper: 3

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

4. Frame: 4

Subtract 0 from 12, then divide by 3. Check the result in the balance rule.

5. Display: 6

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

6. Final: 63134

grid-placement: Display > Paper > Label > Sketch > Frame. Keep leading zeroes.

Art Studio Color Case

HOST ONLY - timeline and paper check

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

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

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

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

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

5 minutes: Solve Display; 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! Art Studio Color Case 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.

Art Studio Color Case

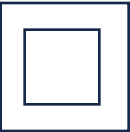
Player clue 1: Sketch | Team 1

Welcome, birthday explorers! Place the birthday drawings in their matching exhibit spaces. Find five badge numbers. Use them on the last page. You can help each other and ask me for hints.

Compare the two strips position by position. How many positions have different shapes? Count positions, not shapes.

Compare matching numbered positions.

A

















1

2

3

4

5

6

7

8

B

















1

2

3

4

5

6

7

8

Do not count title, labels, or boxes as differences.

Sketch badge: _____

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Player clue 2: Label | Team 1

Find the card with the same shape AND marking as the target. Copy its digit.

TARGET: triangle, stripes



triangle / stripes - digit 1



star / stripes - digit 3



triangle / plain - digit 5

Label badge: _____

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Player clue 3: Paper | 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: Sketch.

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.

Paper badge: _____

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Player clue 4: Frame | 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: Label.

3 parcels + 0 loose units = 12 units



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

All parcels have equal weight.

Frame badge: _____

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Player clue 5: Display | Team 1

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

Start after badges: Paper.

RULE: add 2 each time

0	2	4	?
---	---	---	---

Display badge: _____

Art Studio Color Case

Player clue 6: Final | Team 1

Place each badge digit in its named slot. Follow the printed reading order and join the five digits.

A3: Sketch ?	B3: Label ?	C3: Paper ?
D3: Frame ?	E3: Display ?	

READ SLOTS IN THIS ORDER:

E3 > C3 > B3 > A3 > D3

Final badge: _____

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

Art Studio Color Case

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

1. Sketch

Compare the first square in A with the first square in B.

2. Label

Compare two properties.

3. Paper

The middle dashed line is the fold.

4. Frame

All parcels have the same weight.

5. Display

Every step adds 2.

6. Final

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

Art Studio Color Case

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

1. Sketch

Mark a pair only if its shapes differ.

2. Label

First find the same shape, then compare the marking.

3. Paper

The outside right square meets the outside left square.

4. Frame

Remove the loose weight from the total first.

5. Display

Start with the last number, not the first.

6. Final

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

Art Studio Color Case

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

1. Sketch

Count the marks, not the total number of printed shapes.

2. Label

Reject cards that agree on only one property.

3. Paper

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

4. Frame

Share the remaining weight equally among the parcels.

5. Display

Add once more; do not skip a step.

6. Final

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

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Team 1 badge record (no cutting needed)

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

Sketch: _____

Label: _____

Paper: _____

Frame: _____

Display: _____

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

Art Studio Color Case

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.

Art Studio Color Case

You're invited to a birthday mystery!

Join Birthday Explorer for Art Studio Color Case.

Place the birthday drawings in their matching exhibit spaces.

Date: _____

Time: _____

Place: _____

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

Designed for ages 7-9. Estimated 35-45 minutes.

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Art Studio Color Case

Birthday Mystery Explorer

Presented to Birthday Explorer

Team member: _____

For completing Art Studio Color Case with curiosity,
teamwork and kindness.

Mission complete! Art Studio Color Case is ready for its birthday
celebration. Thank your team for sharing ideas and helping one
another.

Date: _____

Host signature: _____

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