Think • Move • Code!

Nursery 1 · Term 2
Printable card pack

All the cards, mats and sheets for Weeks 1–13 in one file. Print on card if you can; an adult does all the cutting. Laminate cards you use every week.



Colour cards (red and blue)

Print several pages on card. Each card is far bigger than a toilet-roll opening.



red



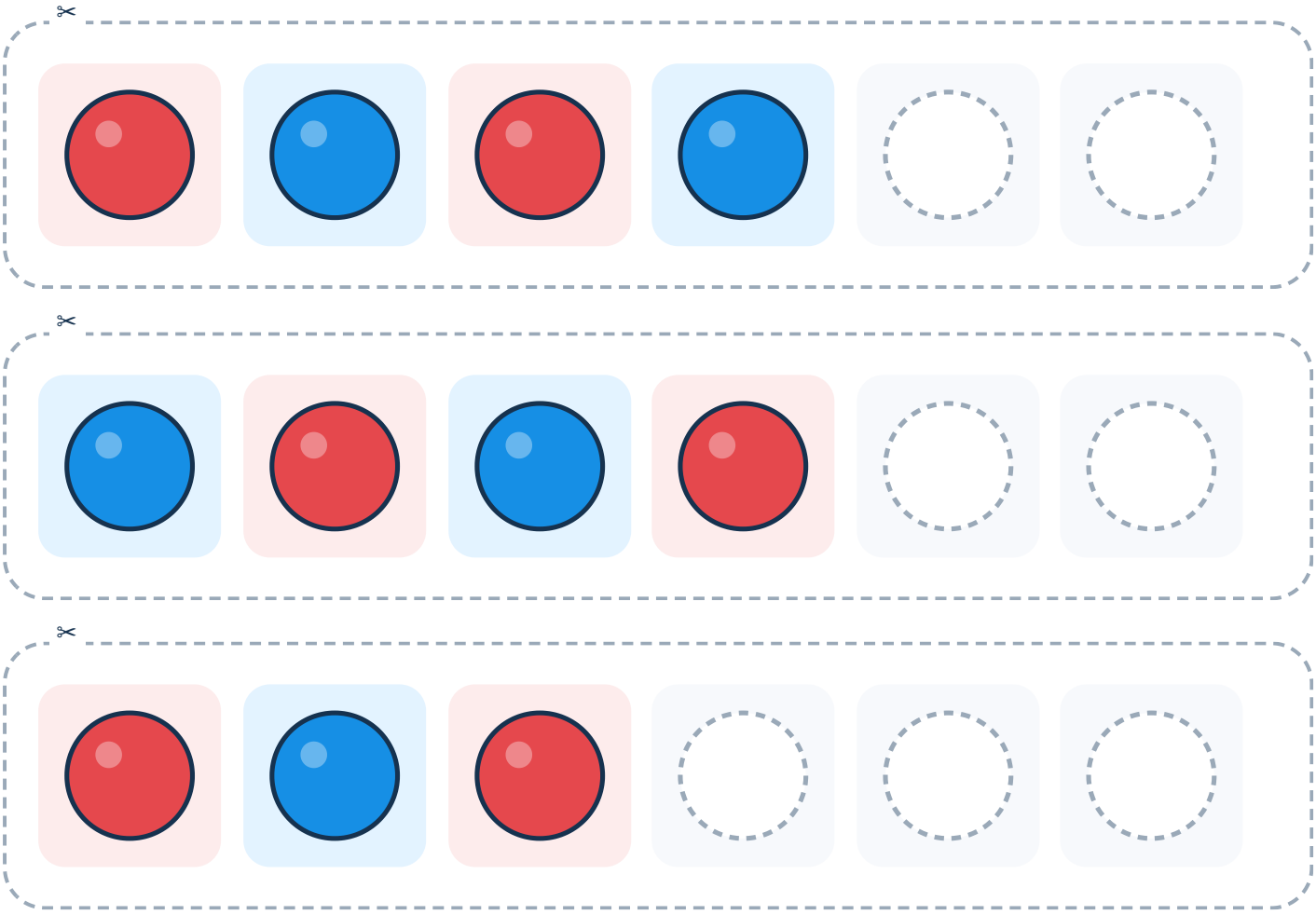
blue



red

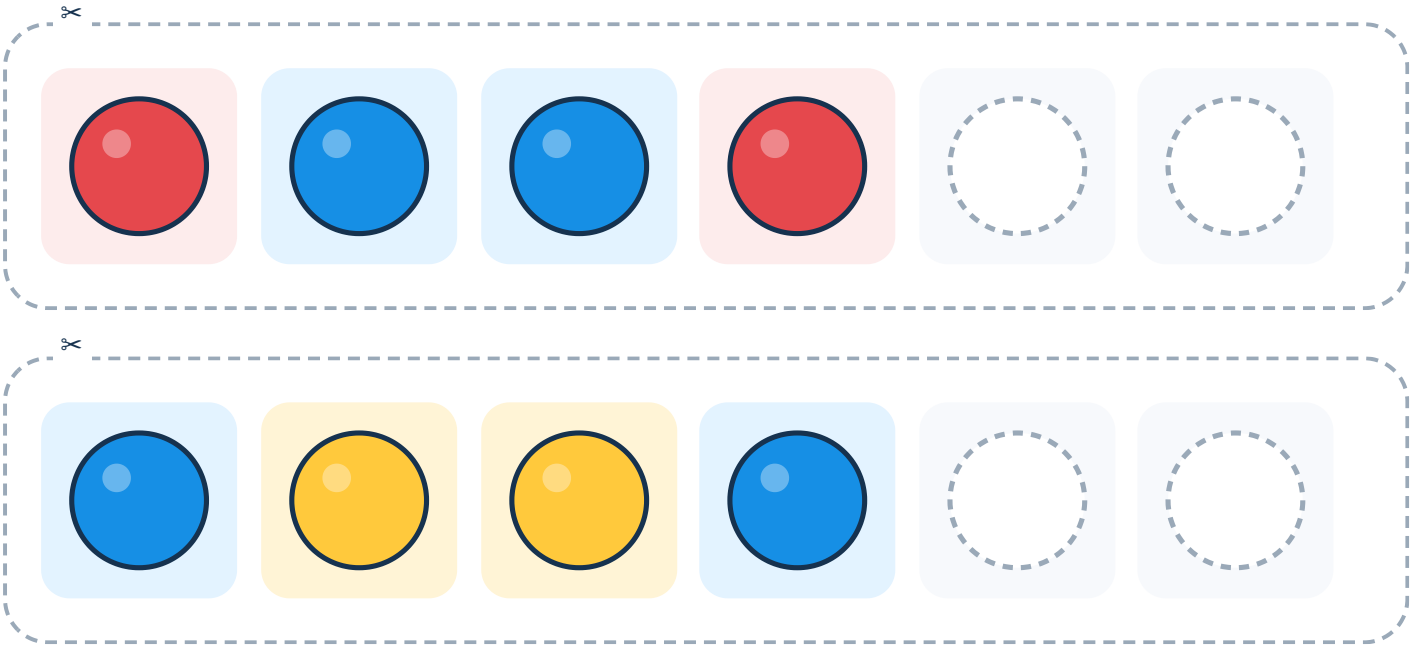
Pattern strips: copy and continue

One strip per pair. Copy with counters, then continue in the empty circles.



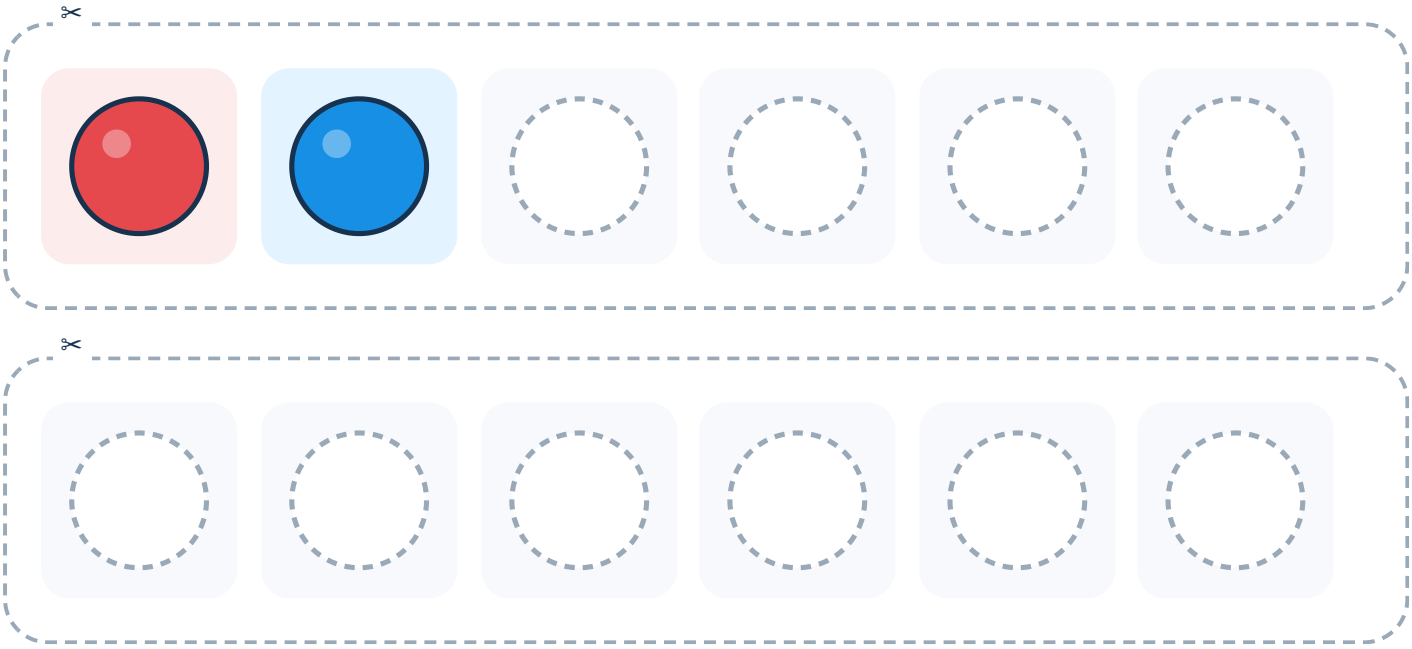
Stretch strips (ABB)

Optional. Red, blue, blue... what comes next?



Colour Ayo’s lights

Colour red, blue, red, blue… then keep going!

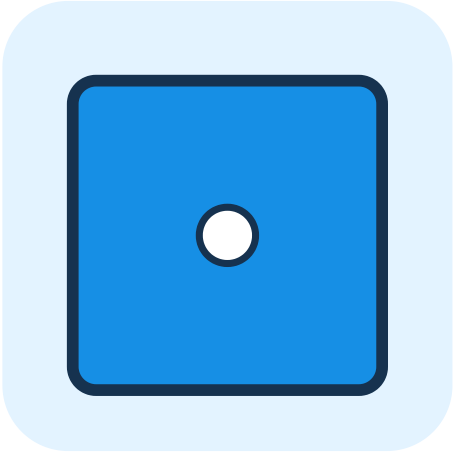


Threading shapes (optional Build)

An adult cuts these out and punches the holes. Thread on thick string: red, blue, red, blue.



red circle



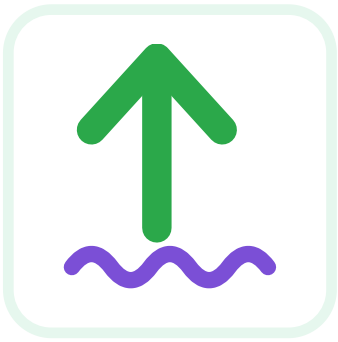
blue square

Move cards

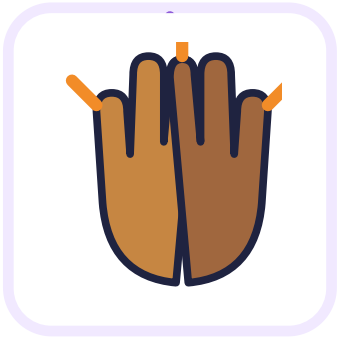
One set per group of 4. Print two copies so groups can lay 6 cards.



march



jump



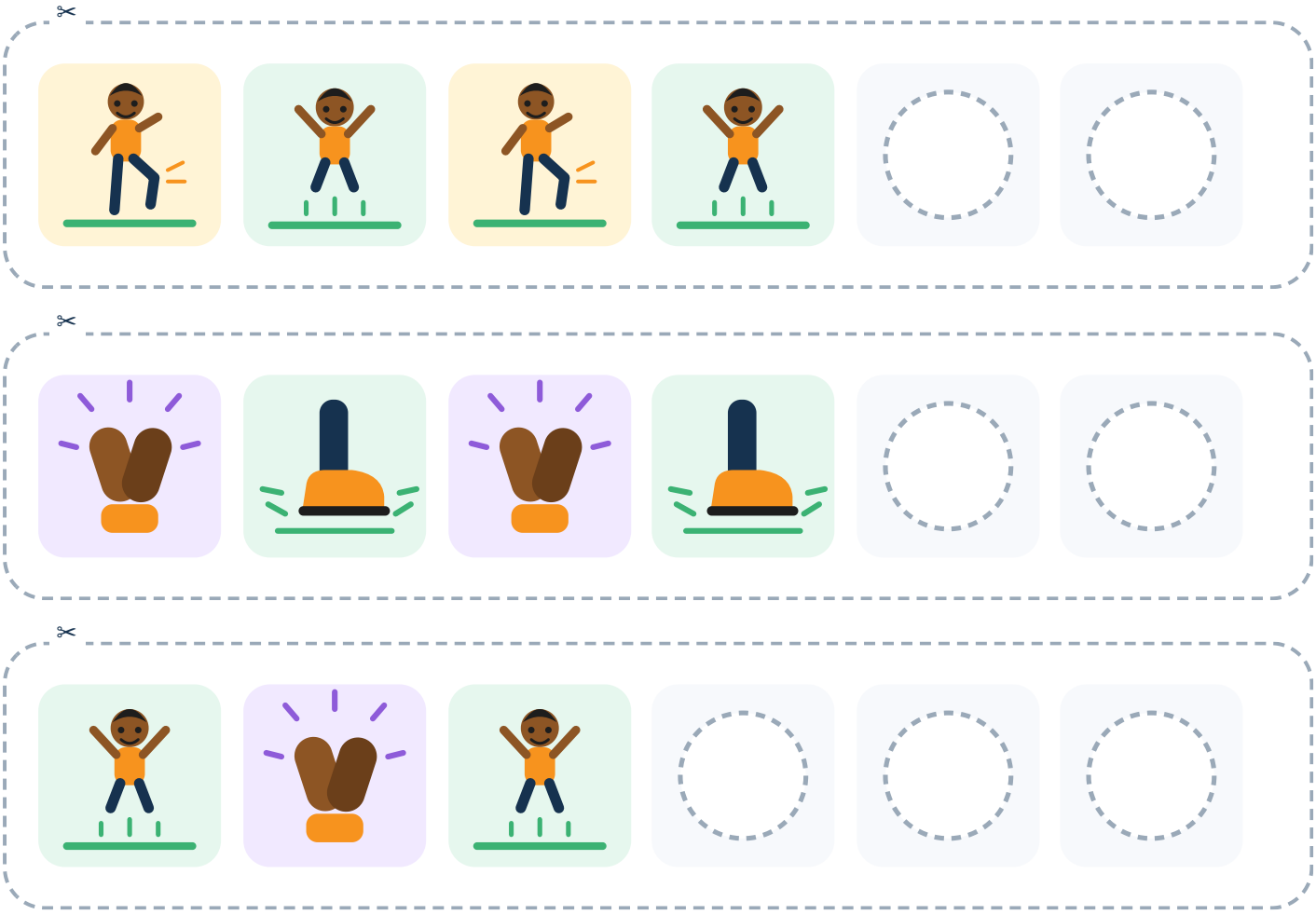
clap



stamp

Dance strips: continue the dance

Copy with move cards, then draw or lay what comes next.



Stretch card and blank cards

Optional: skip for a skip–hop pattern, or draw your own move.



skip



my move: _____



my move: _____

My dance pattern

Draw your 2-move dance, then draw it again! Name: _____

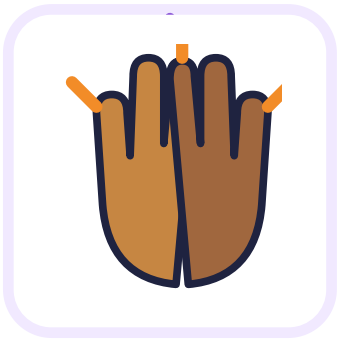
1 move 1

2 move 2

3 again: move 1 + move 2

Sound cards

One set per group. Read the cards and play the sounds.



clap



stamp



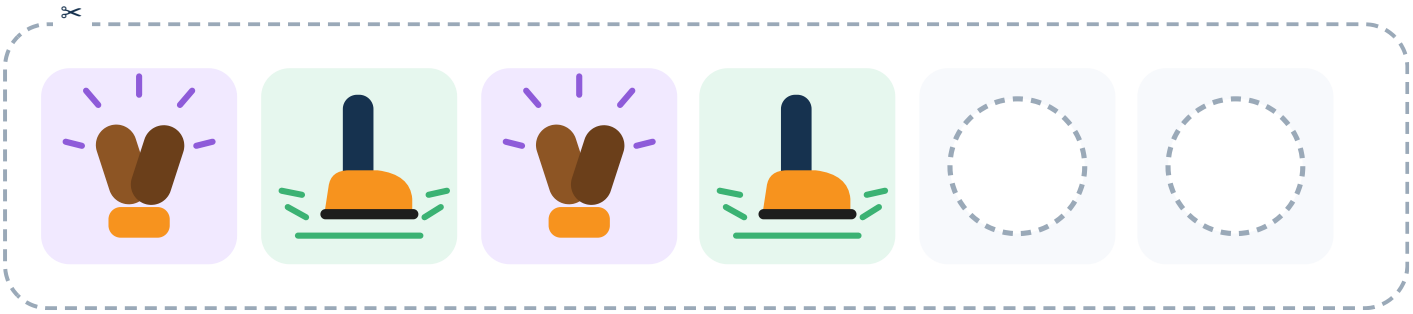
beep

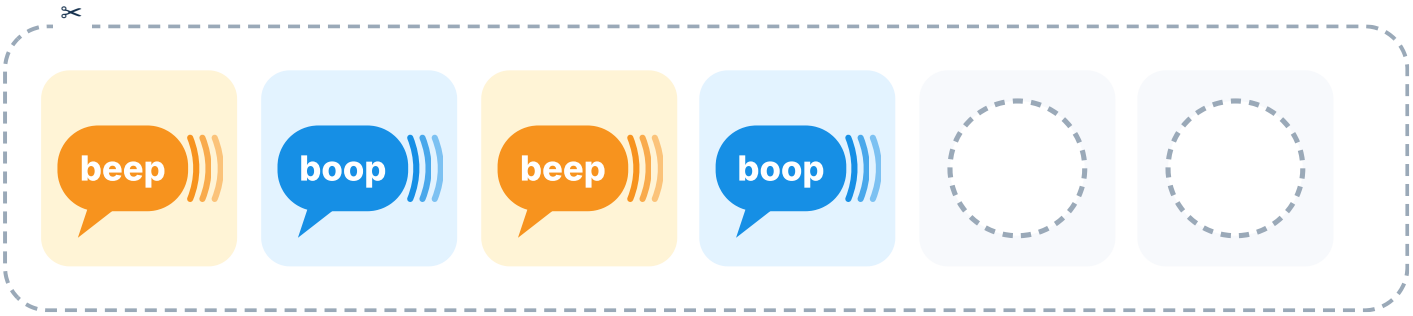


boop

Sound pattern strips

Read and play, then continue in the empty circles.







Our senses and our instruments

Ear and eye cards for Think; instruments for the sound circle.



we hear



we see



sealed shaker (adult-made)



bowl drum

Machines that beep patterns

For the AI talk: what is the machine telling us?



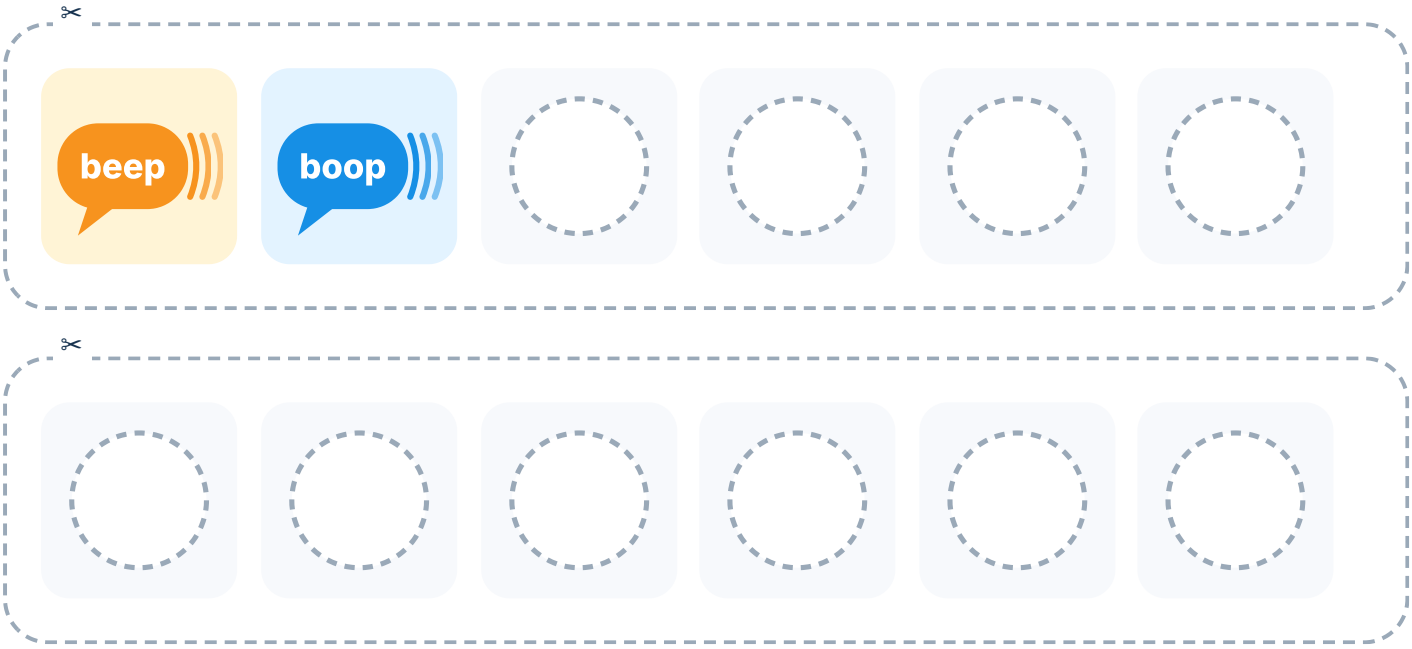
microwave: food is ready



car reversing: watch out

My beep code for Ayo

Colour or draw beep and boop to make a code. Play it for a friend!

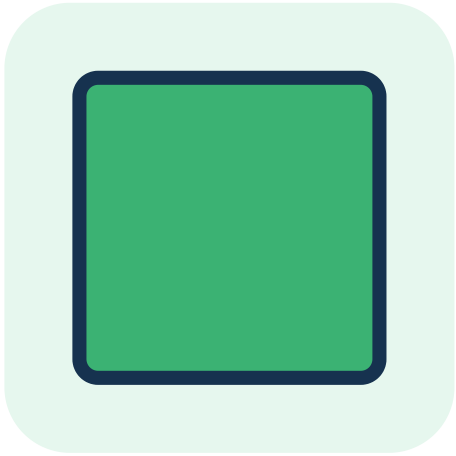


Shape cards

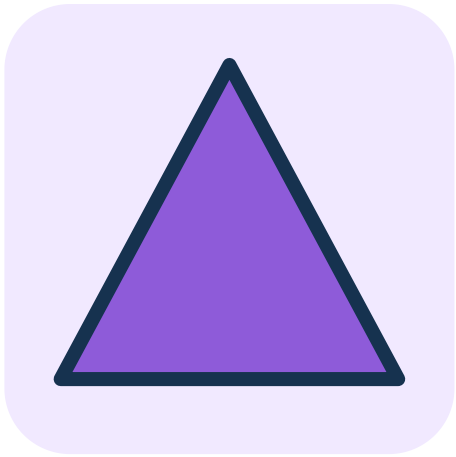
Print several pages. Use for the shape strip and the floor hop track.



circle



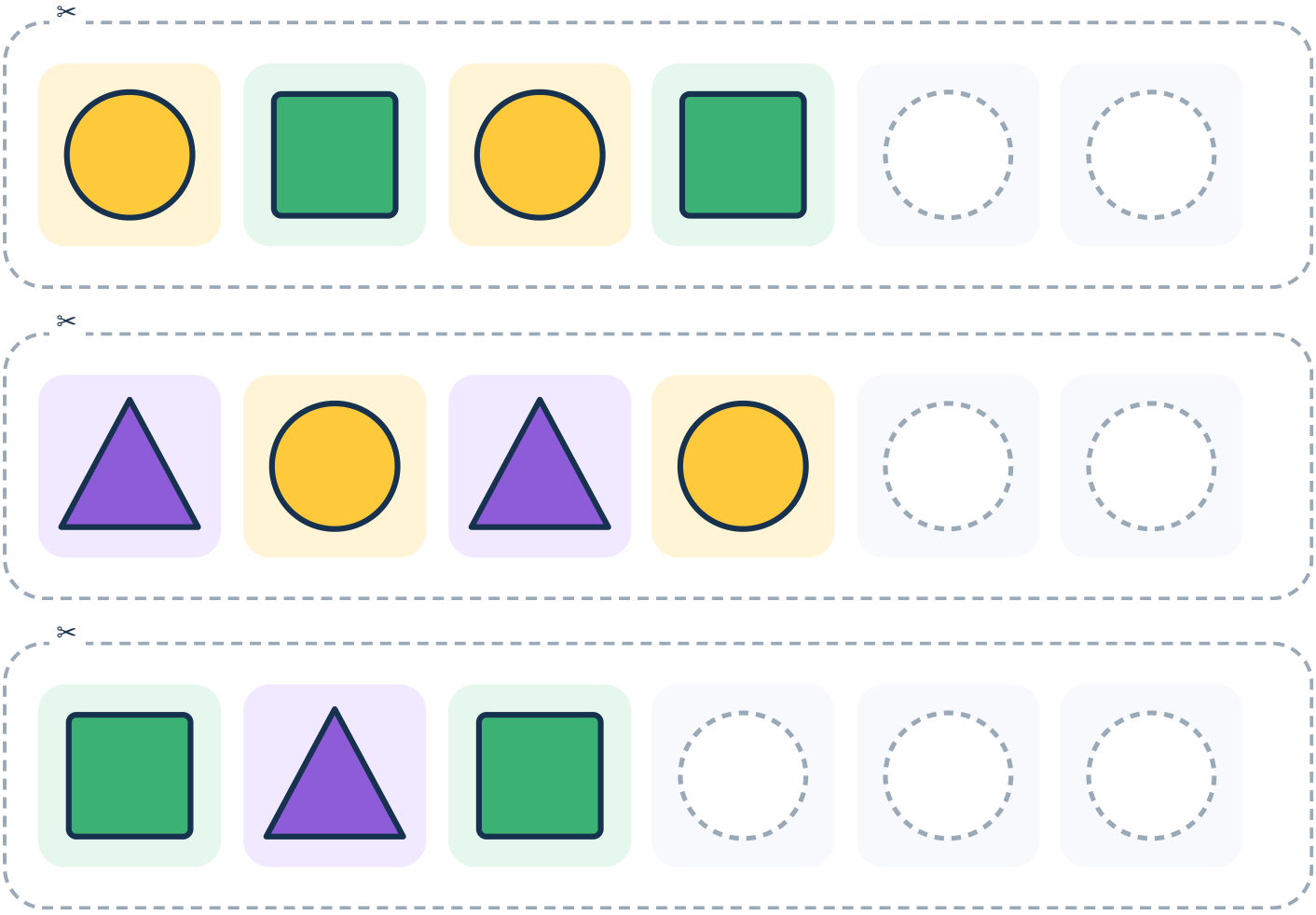
square



triangle

Shape pattern strips

Lay shape cards to copy, then continue in the empty circles.



Build card: Ayo's Pattern Road

One per group. The teacher reads each step.

1



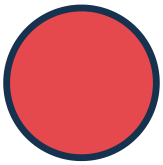
Find big round things

2



Find big box things

3



Lay round, box, round, box

4



Swap roads: add the next 2 pieces

5



Walk Ayo along the road

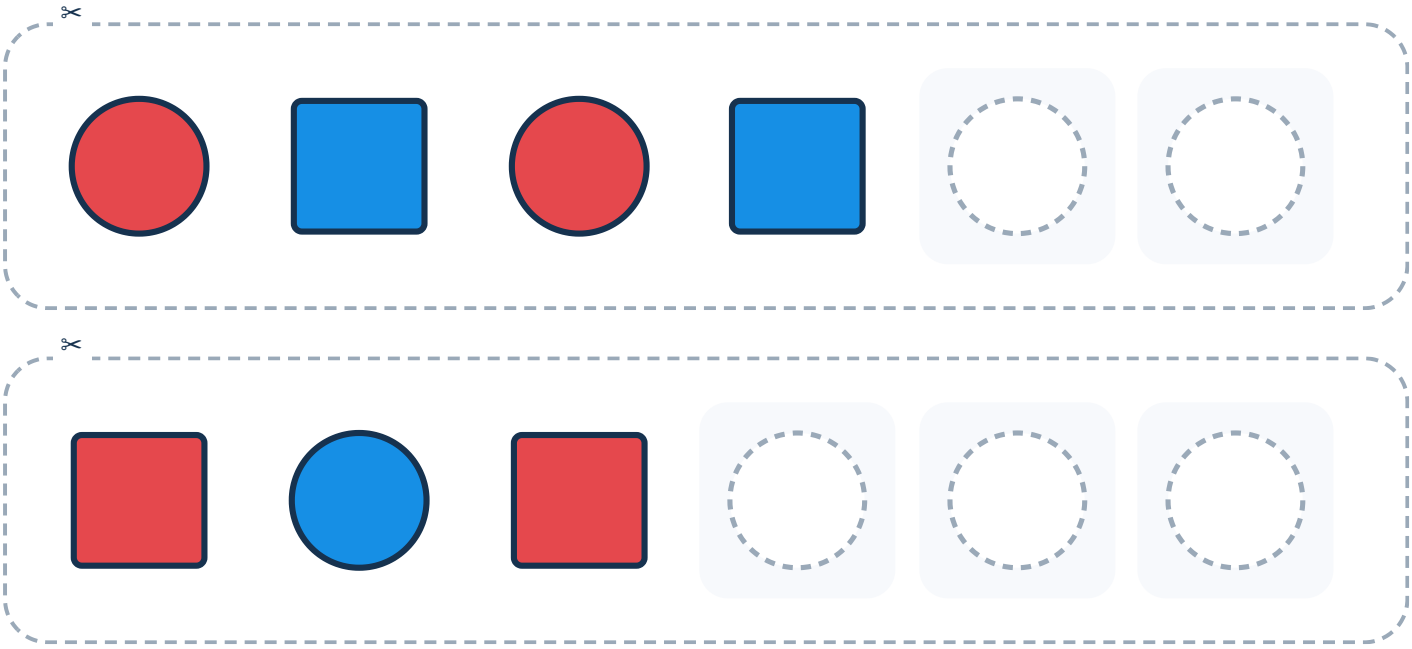
6



Say the pattern. Photo time!

Stretch strips: colour and shape

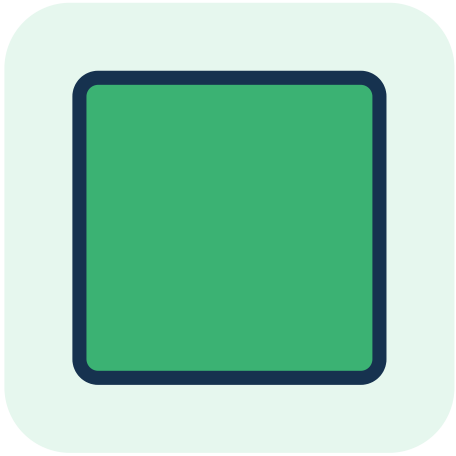
Optional. Look at the colour AND the shape.

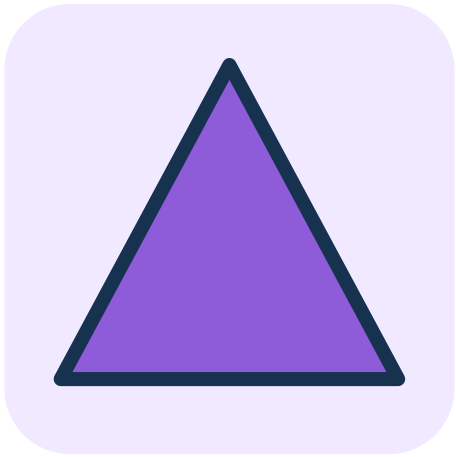


Paper shapes to cut (adult cuts)

An adult cuts these out for the Create task: make your own shape pattern.

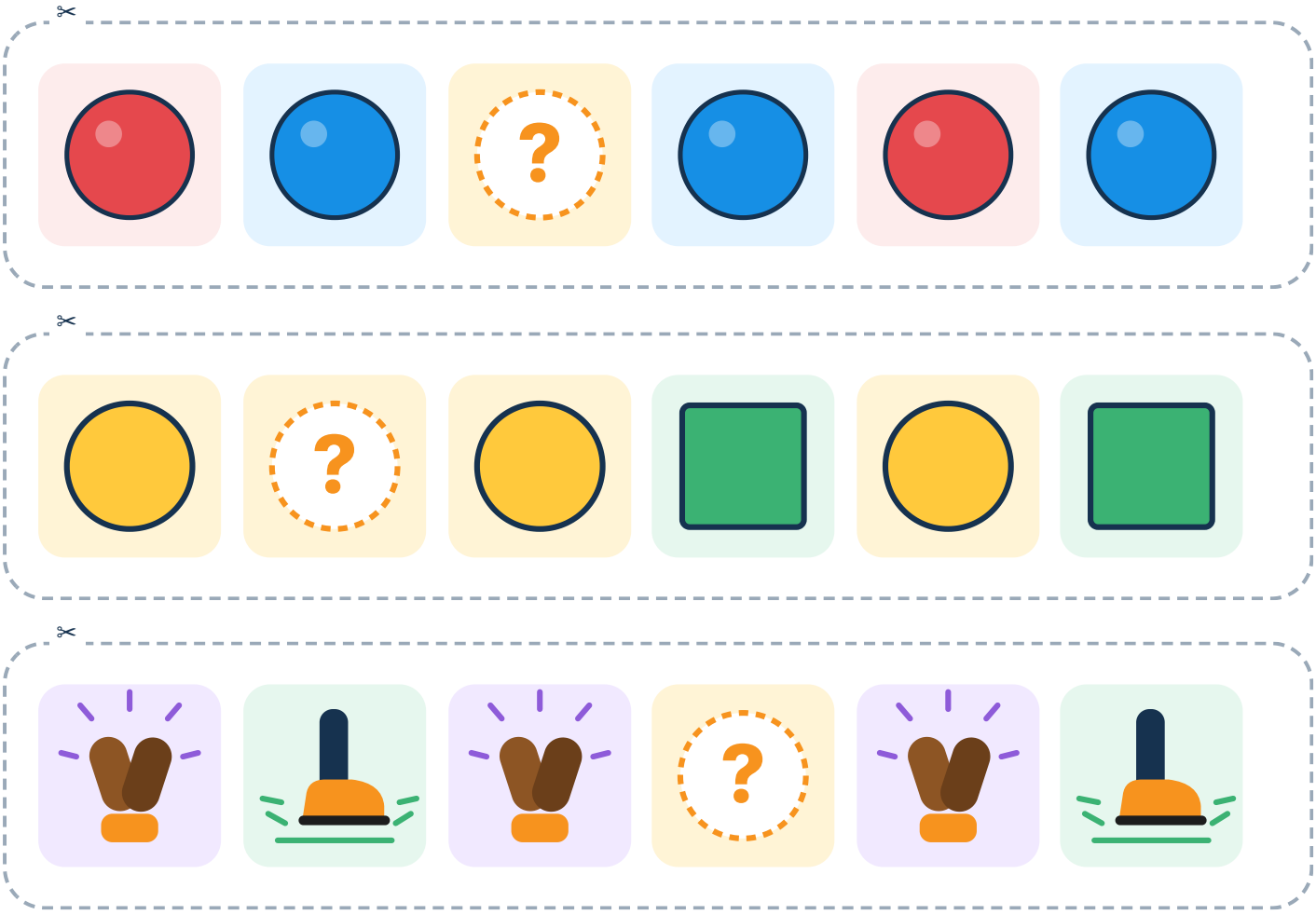






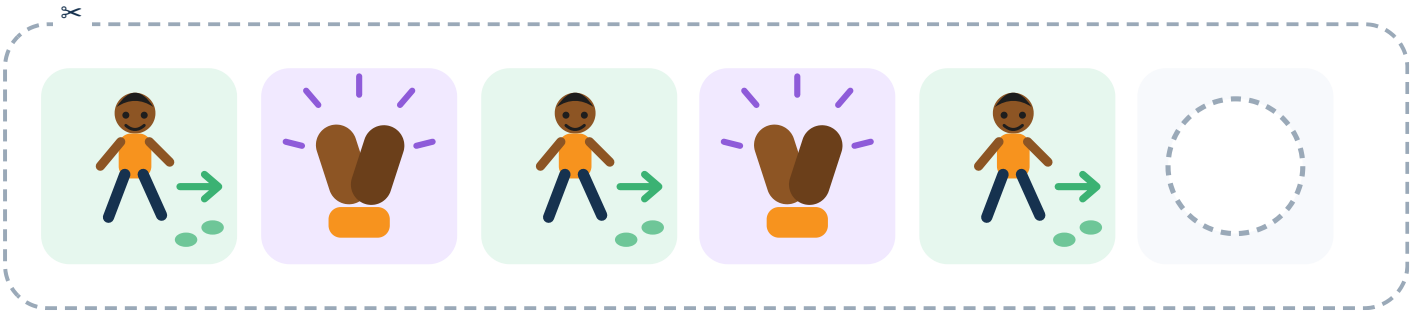
Gap strips: find the missing piece

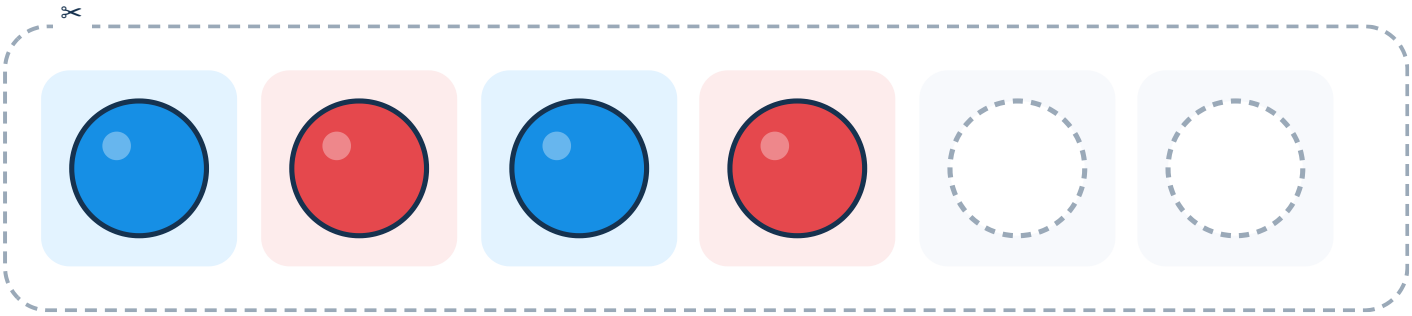
Say “1–2, 1–2”. Which piece goes in the “?”?

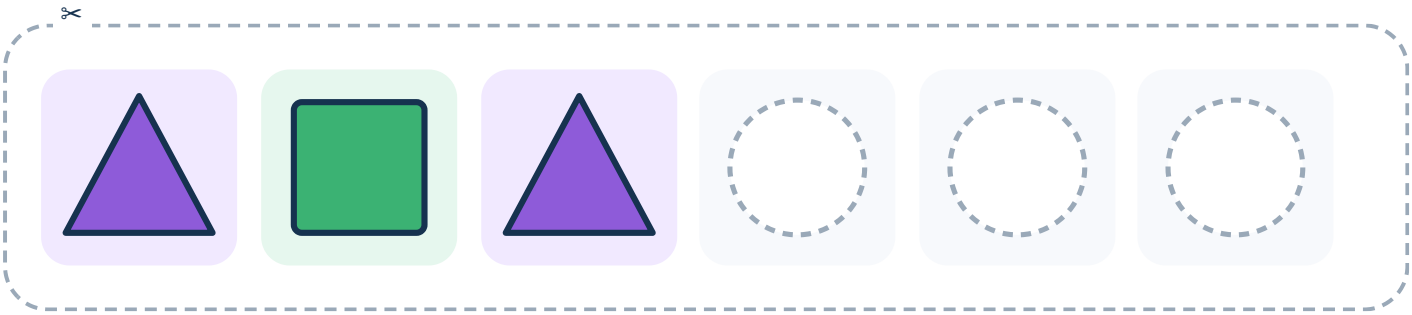


What comes next? strips

Predict, then check with the cards.







Predict and check signs

Hold up “predict” when guessing and the cup when it is time to check.



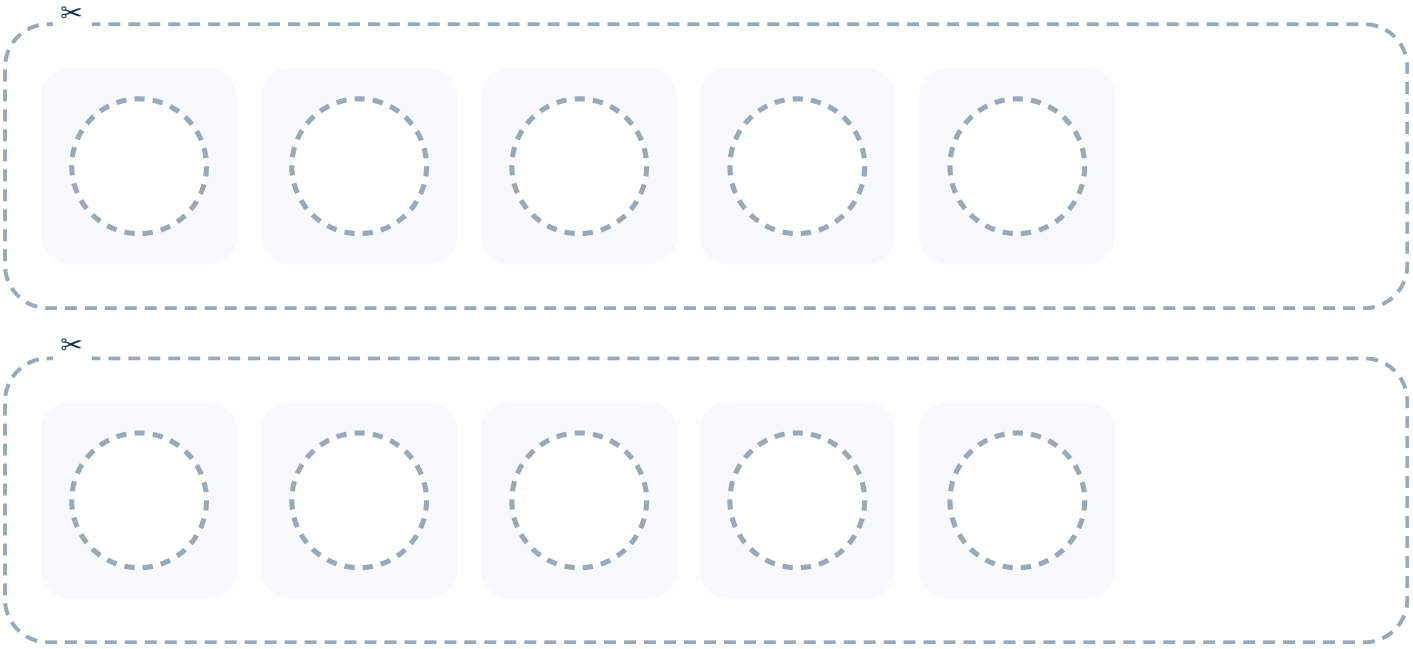
predict



lift the cup: check!

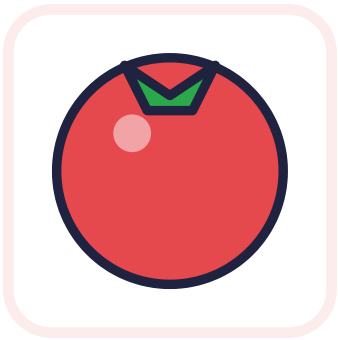
Make a pattern for a friend

Draw a pattern. Leave the last box empty for a friend to finish!

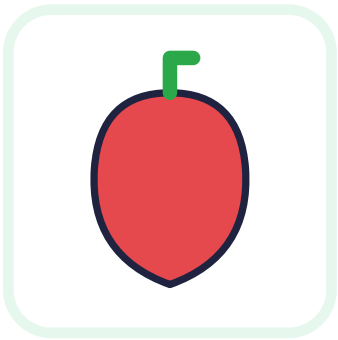


Sorting cards: market basket

Sort by colour, then by another rule.



tomato



pepper



banana



ball

Sorting cards: animal or not animal

One set per group.



cat



dog



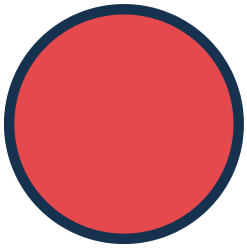
bird



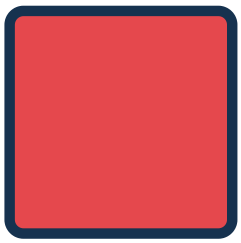
cup

Sorting cards: colour and shape

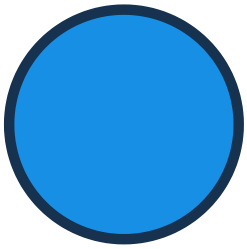
Sort by colour, then by shape. Stretch: both!



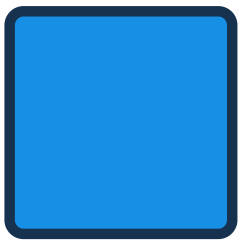
red circle



red square



blue circle



blue square

Colour cards for the sorting robots

Children hold one and walk to the matching hoop.



red



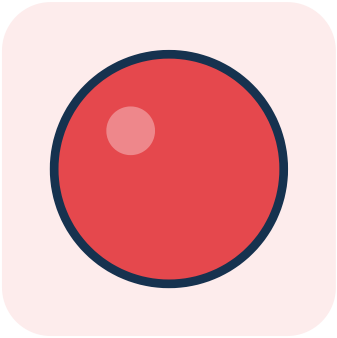
blue



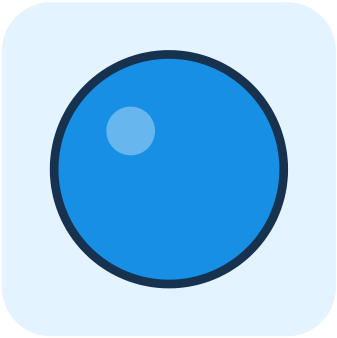
yellow

Bin labels (optional Build)

Stick on junk boxes to make sorting bins.



red things



blue things



animals

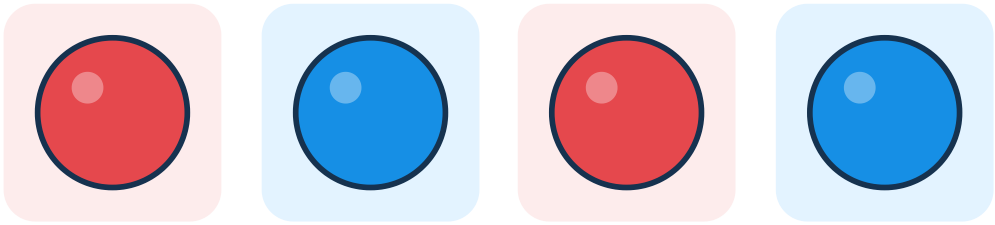


not animals

Game station signs

Cut out and place one sign at each station. Groups move on two claps.

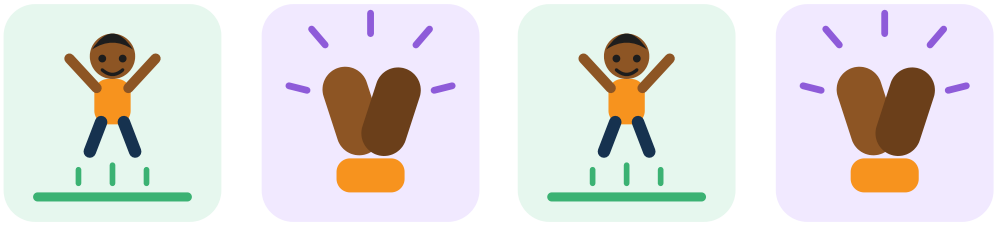
A Pattern Line



Stand in a red, blue line. Join it in the right colour!

Replays Week 1 · Core: Move

B Robot Dance



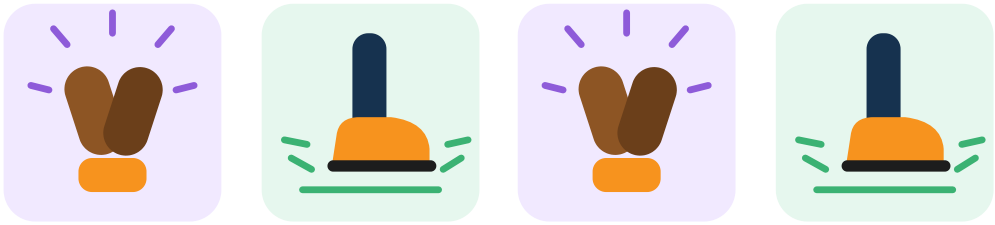
Copy the dance, then keep it going.

Replays Week 2 · Core: Move

Game station signs

Cut out and place one sign at each station. Groups move on two claps.

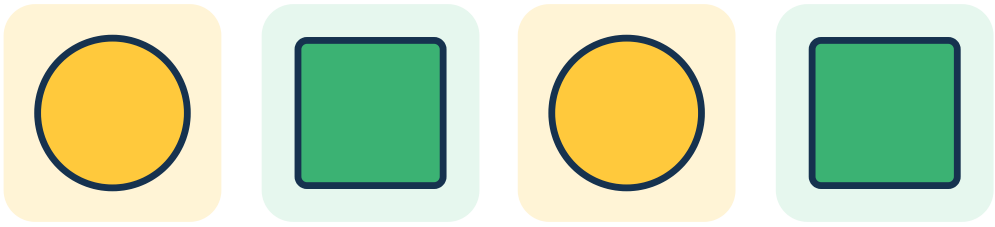
C Clap Back



Listen to the leader. Clap it back and keep going!

Replays Week 3 · Core: Move

D Pattern Hop



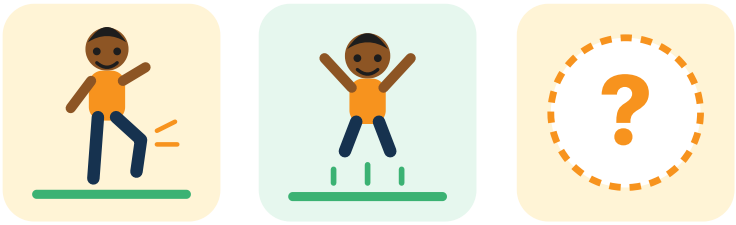
Hop on the shape track. Say each shape. What comes next?

Replays Week 4 · Core: Move

Game station signs

Cut out and place one sign at each station. Groups move on two claps.

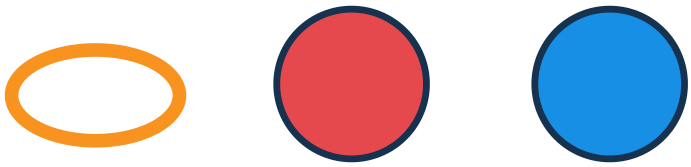
E Freeze + Card challenge



Guess the frozen move. Fill the gap in 4 cards and add 2 more!

Replays Week 5 · Core: Code · Teacher station

F Sorting Robots

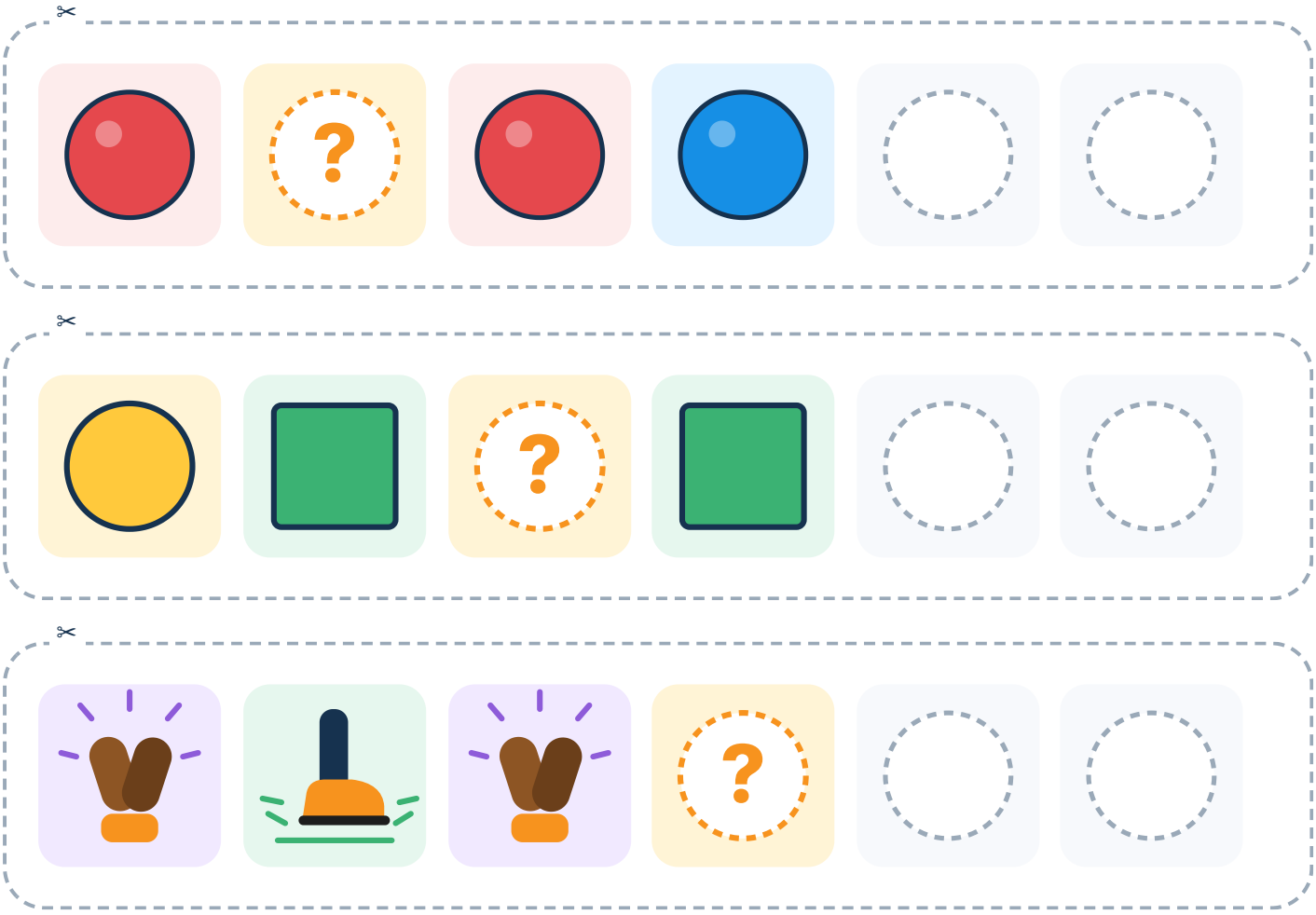


Carry things to the hoops by one rule. Say your rule!

Replays Week 6

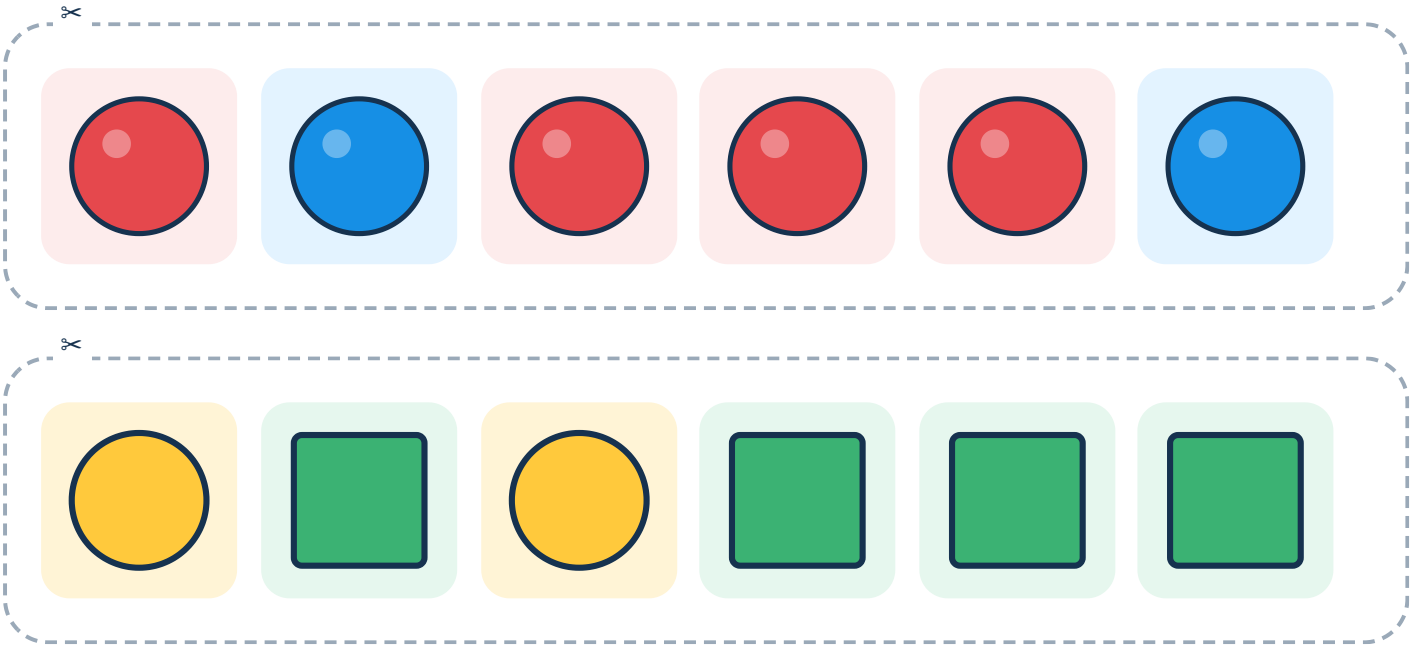
Card challenge strips: fill the gap, add 2 more

Fill the “?”, then draw 2 more in the empty boxes.



Stretch: spot the mistake

One piece is wrong. Circle it and say the right one.



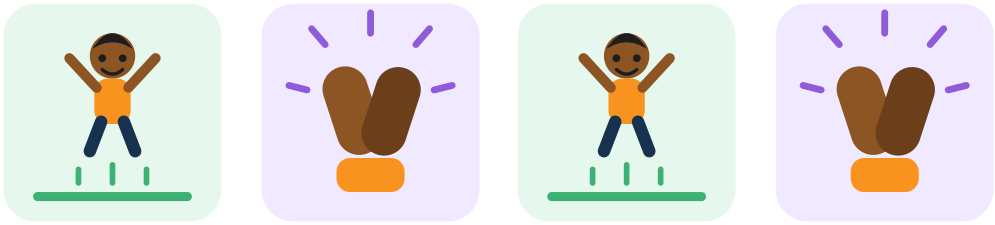
My favourite pattern game

Draw your favourite game and you playing it. Name: _____

Use–Modify–Create station signs

Place one sign at each station. Groups visit 1 → 2 → 3 and move on two claps.

1 Copy it!



Copy the dance and keep it going.

USE · Core: Move

2 Change it!



Change ONE move. Dance the new pattern.

MODIFY · Core: Move · Teacher station

Use–Modify–Create station signs

Place one sign at each station. Groups visit 1 → 2 → 3 and move on two claps.

3 Make it!

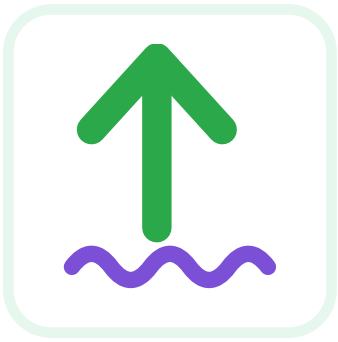


Choose card A and card B. Lay them 3 times. A friend dances it for Ayo!

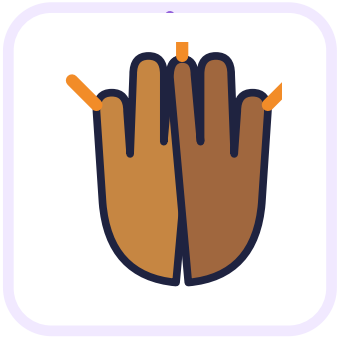
CREATE · Core: Code

Move cards (set 1)

Two sets per group. Cut on the dotted lines.



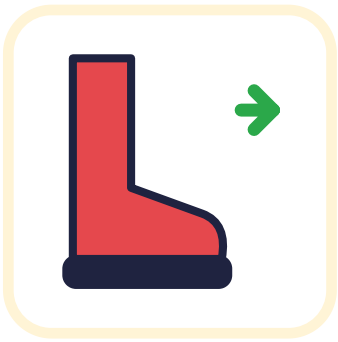
jump



clap



stamp



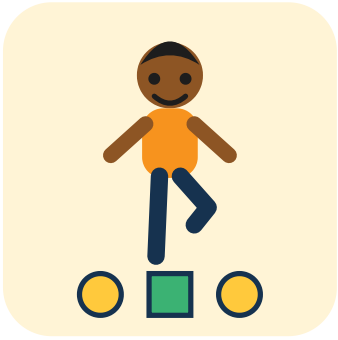
march

Move cards (set 2)

More moves for making your own pattern.



wave



hop



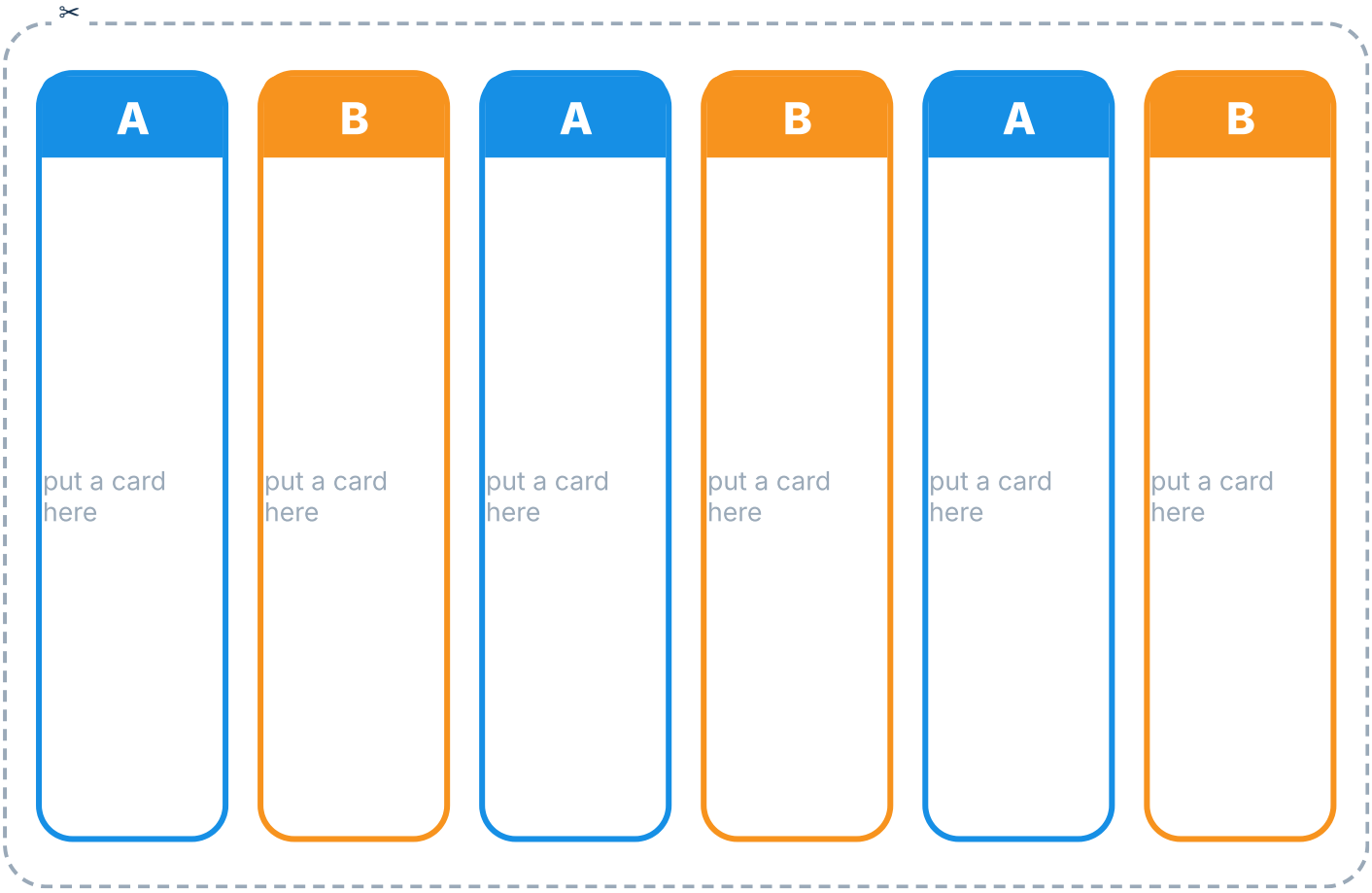
turn

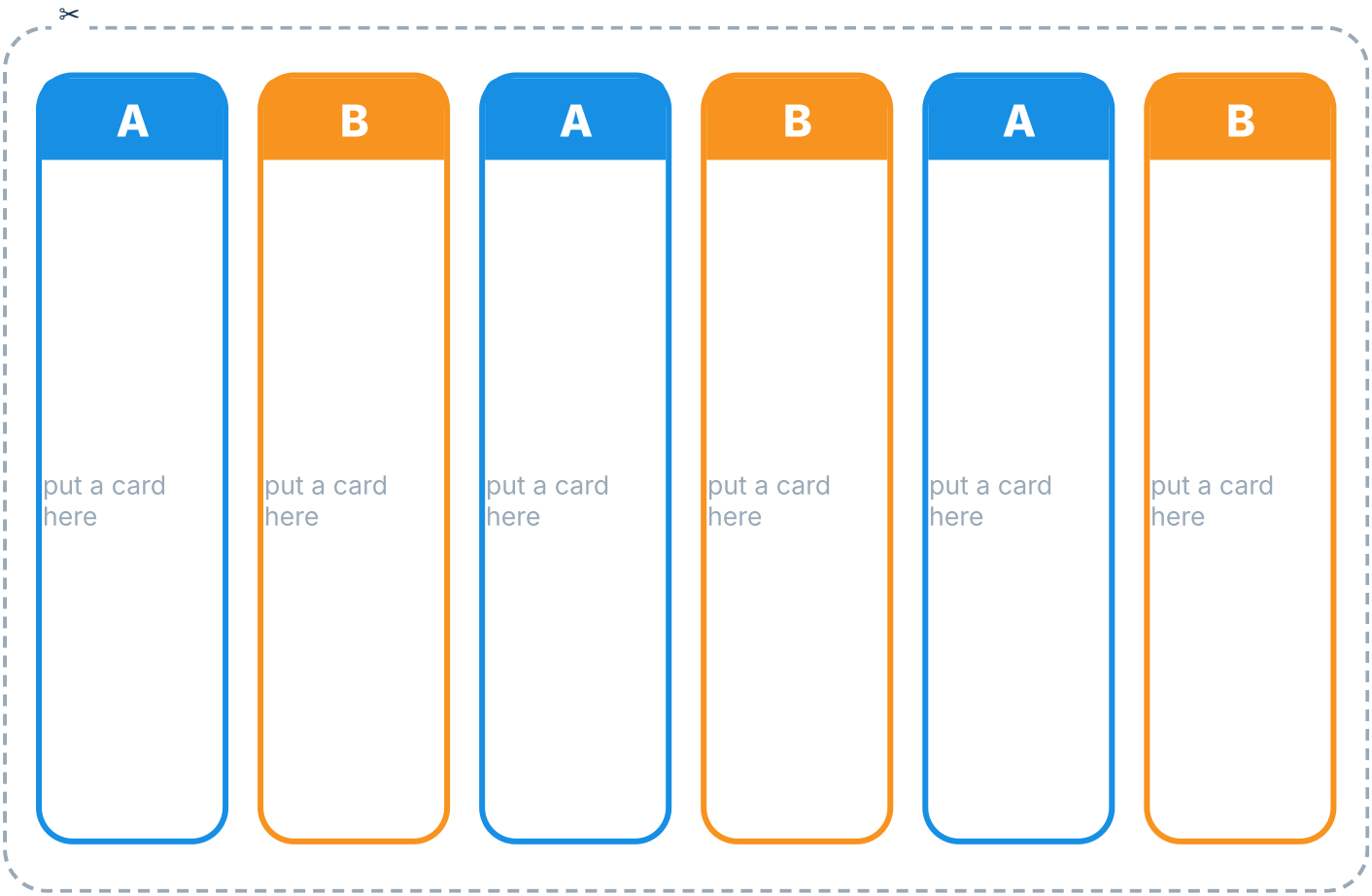


walk

Blank A–B pattern strips

Lay card A, then card B, three times. A friend dances it!





My collage pattern for Ayo’s dance floor

Glue paper scraps or fabric pieces in an AB pattern: A, B, A, B… (an adult cuts). Name: _____

Pattern-hunt sheet

Draw the 2 patterns your team found, and one you found at home. Name: _____

1 pattern we found

2 another pattern

3 a pattern at home

Sample cards: copy these with AB cards

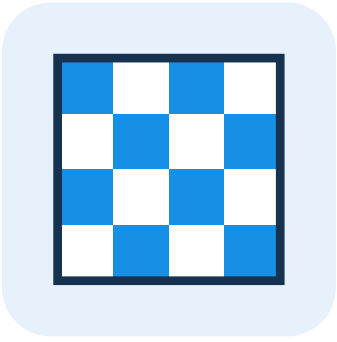
Each has a clear 2-part repeat. One per team.



striped cloth



zebra



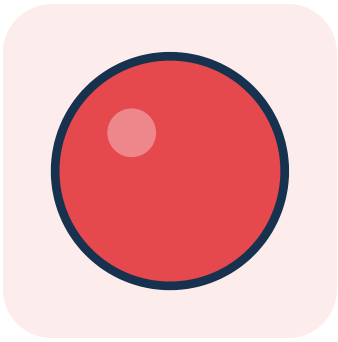
floor tiles



striped uniform

AB colour cards

Two sets per team. Use them to copy the samples.



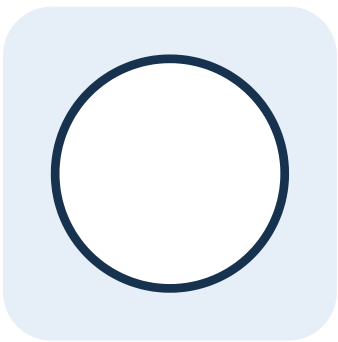
red



yellow



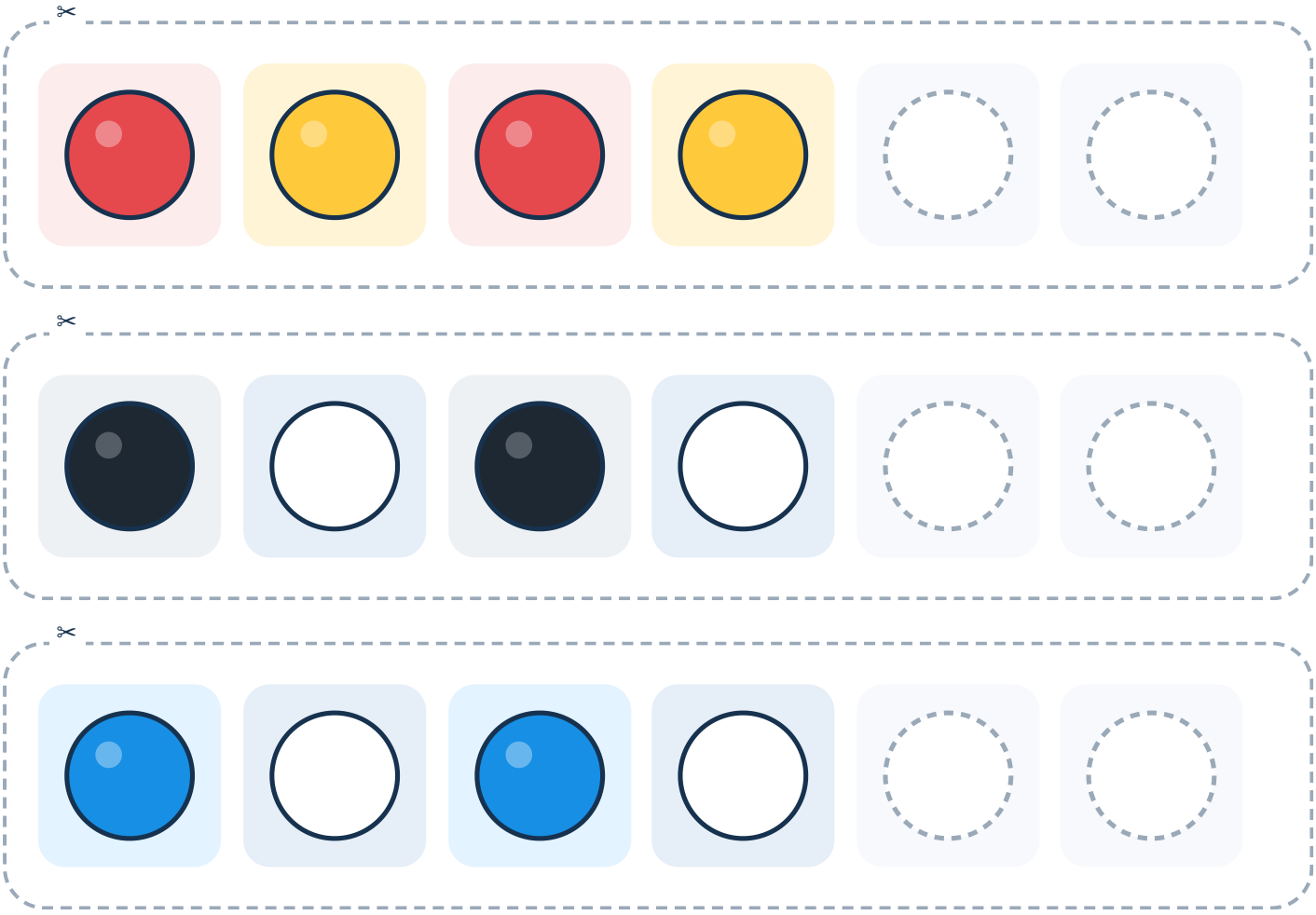
black



white

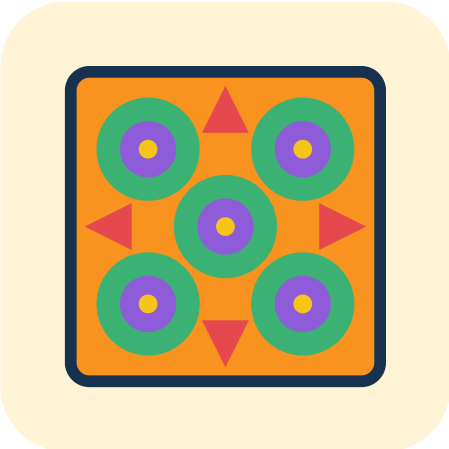
Copy strips

Copy the sample, then draw the next two.

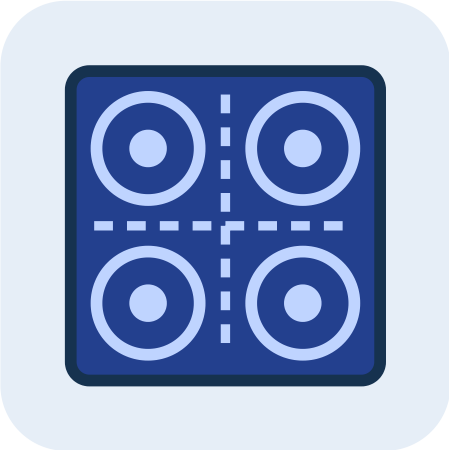


Look-and-talk cards (not for copying)

Talk about the colours and shapes. Stretch: find the part that repeats.



Ankara



adire

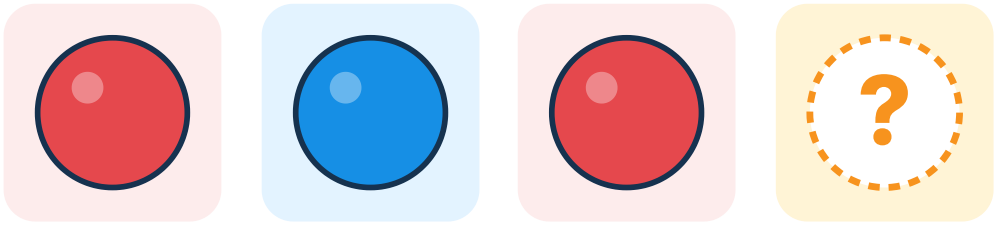


pineapple

Smart Review station signs

Place one sign at each station. Groups move on two claps.

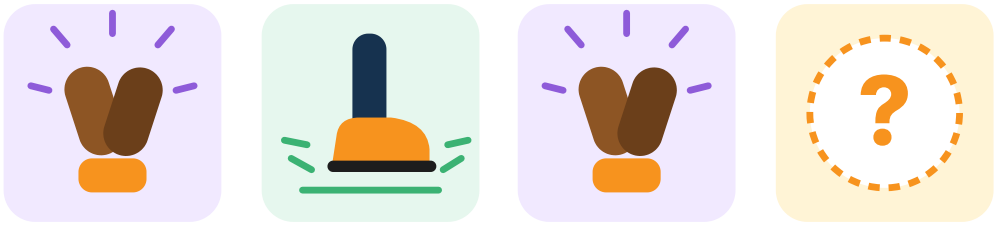
1 Copy and Continue



Look, then hide! Lay the same 3 cards and add the next.

Brings back Weeks 1 and 4 · Core: Code

2 Clap the Pattern



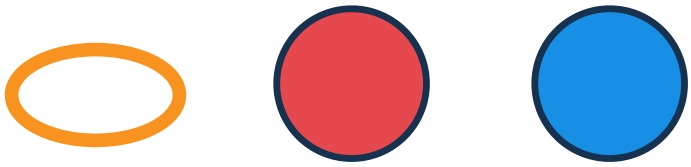
Clap and stamp... freeze! Say and do what comes next.

Brings back Weeks 2, 3 and 5 · Core: Move

Smart Review station signs

Place one sign at each station. Groups move on two claps.

3 Sorting Robot



Sort by one rule. Say your rule!

Brings back Week 6 · Core: Move

4 Pattern Hop + Steps

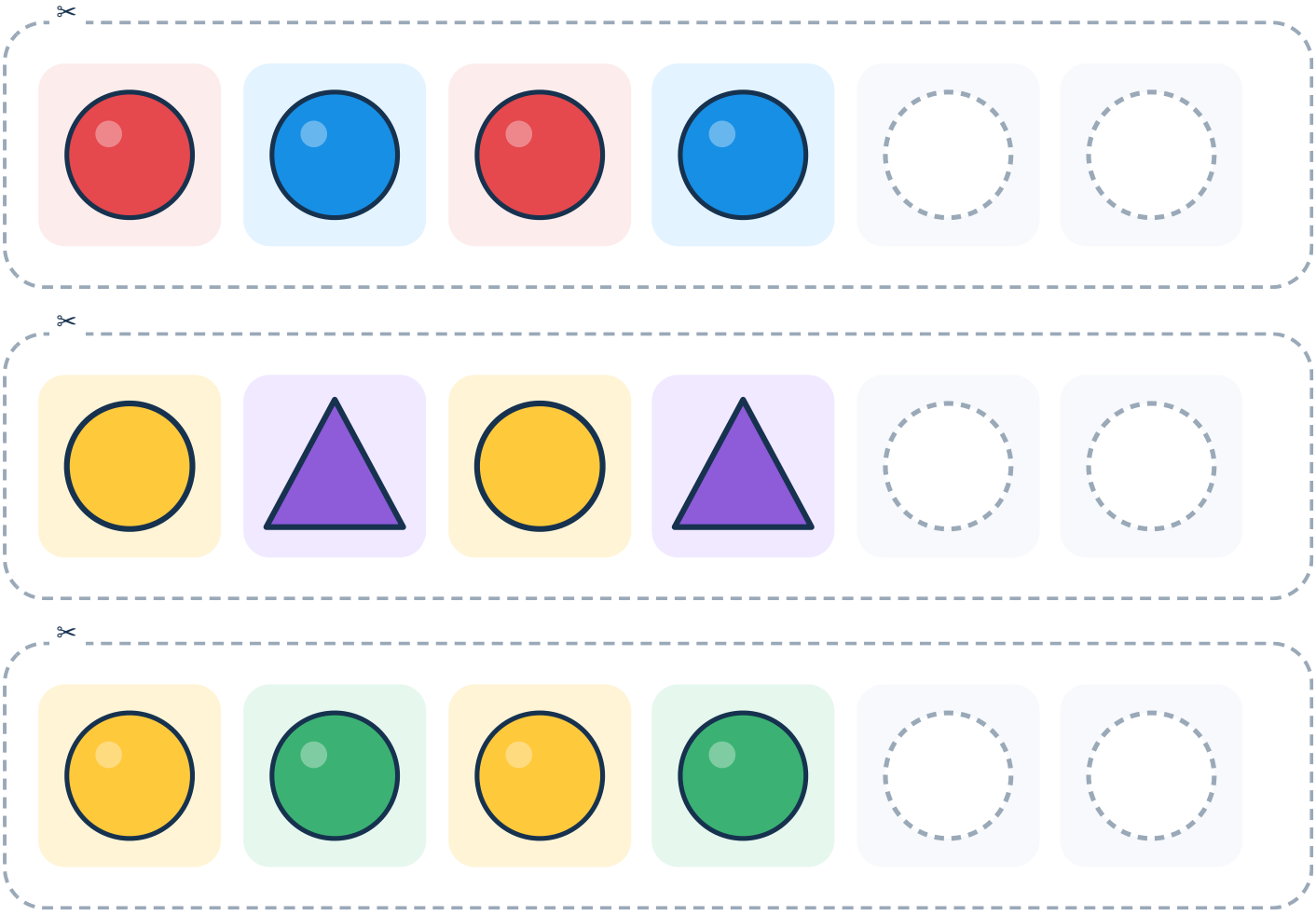


Hop the shape track. Then put 3 step cards in order and fix a swap.

Brings back Weeks 4 and 8 + Term 1 (MVL note) · Teacher station

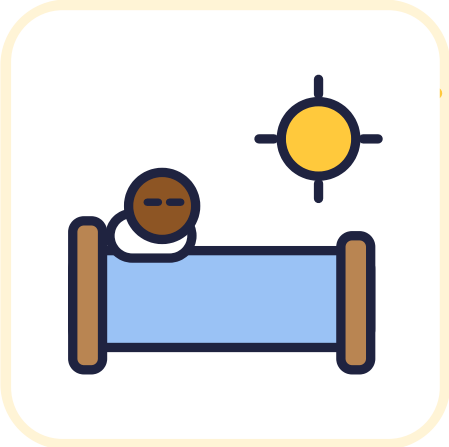
Station 1 strips: copy and continue

Copy the strip, then draw the next two.



Station 4: Term 1 step cards (MVL thread)

Put Ayo's morning in order. A partner swaps two; swap them back!



wake up



brush teeth



eat breakfast

Harder station cards (Stretch, ABB)

Say it: A, A, B... what comes next?



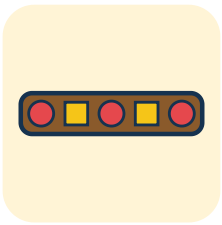
My favourite pattern this term

Draw your favourite pattern from Term 2. Name: _____

Build card: Ayo's Robot Dance

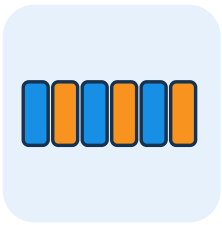
One per team. The teacher reads each step.

1



Make Ayo a pattern belt

2



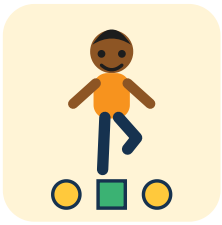
Choose 2 dance cards: A and B

3



Lay them 3 times: A B A B A B

4



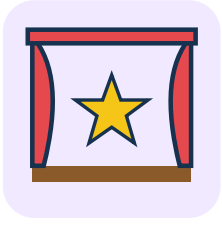
Robot dances; checker points

5



Check it, fix it, practise again

6

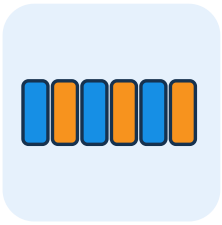


Show time! What comes next?

Picture build checklist

Two per page, one per team. Tick each box when you have done it. Not marked.

Our robot dance Team: _____



pattern ☐



repeat 3 ☐

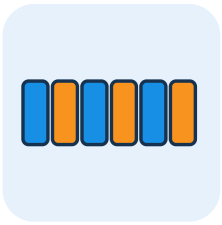


next move ☐



show ☐

Our robot dance Team: _____



pattern ☐



repeat 3 ☐



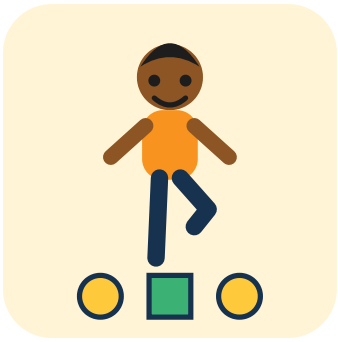
next move ☐



show ☐

Dance move cards

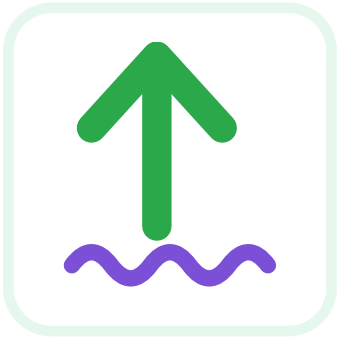
Two sets per team. Cut on the dotted lines.



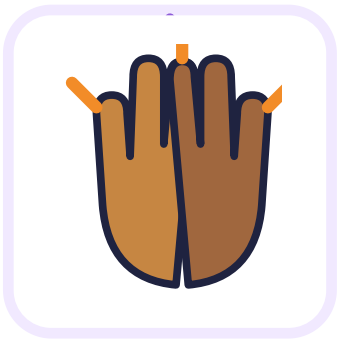
hop



wave



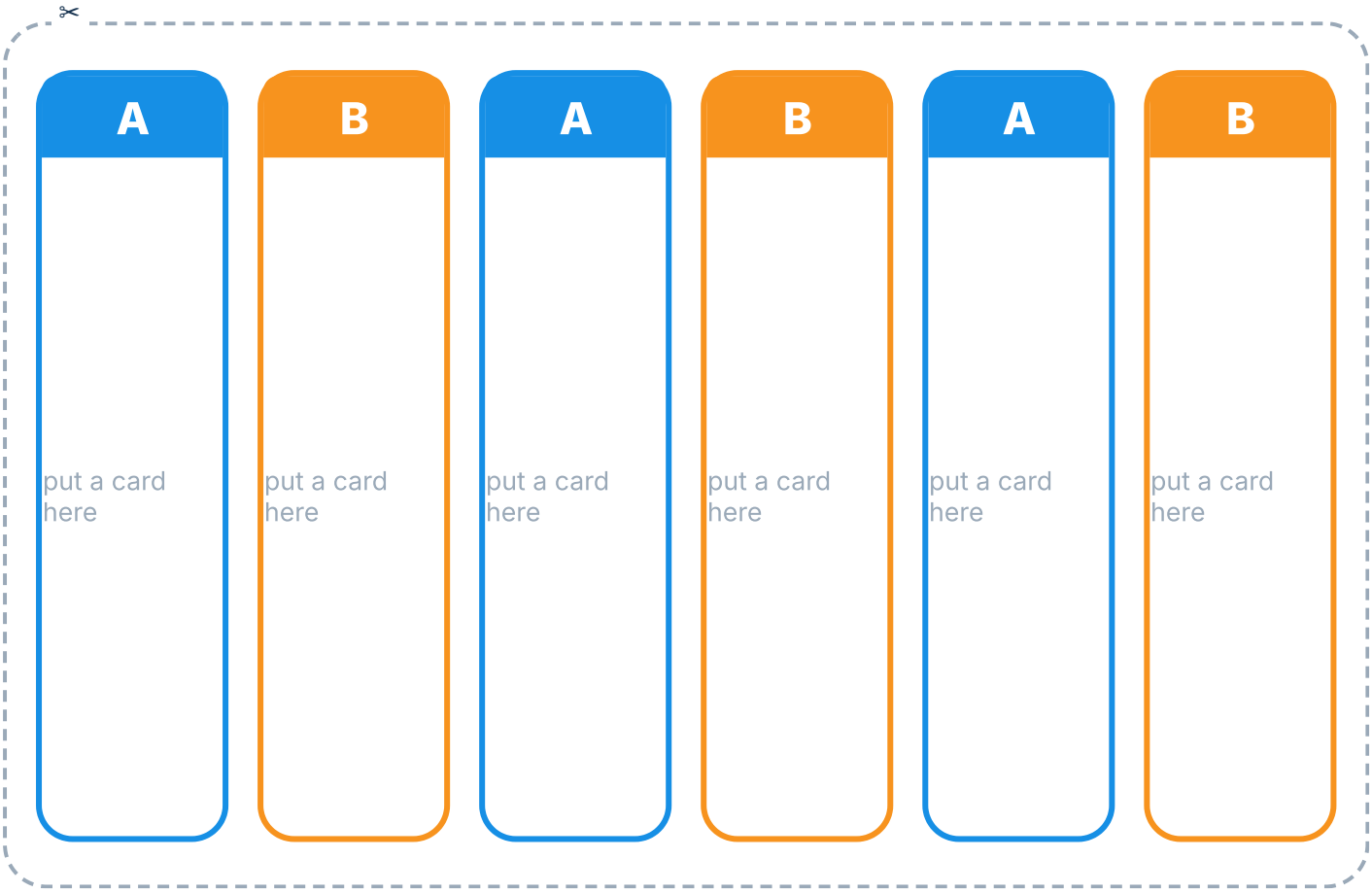
jump

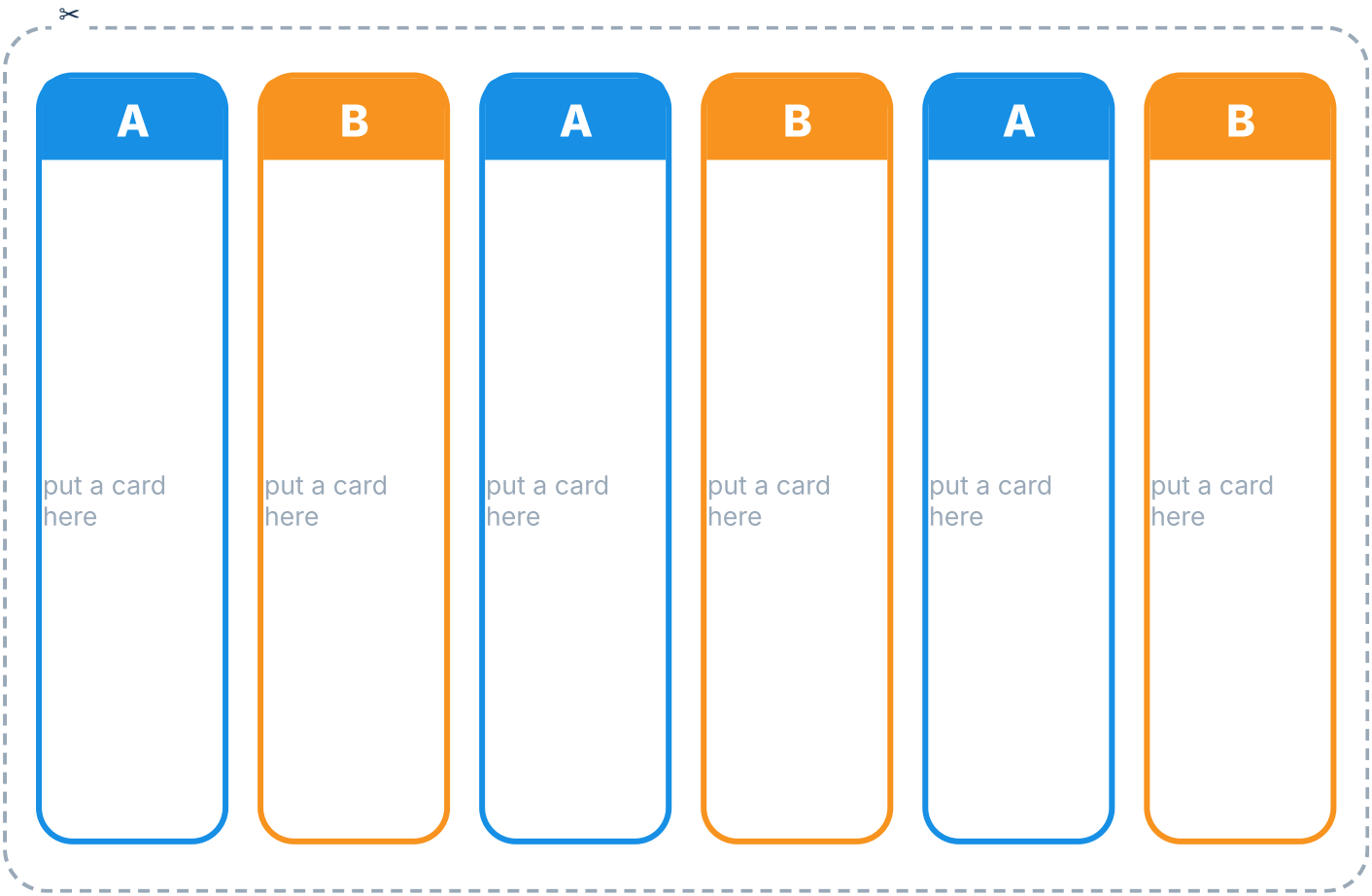


clap

A–B dance strips

Lay card A, then card B, three times. No ↻ card this week.





Our Robot Dance team

Stick your team photo here (or draw your team) for the Week 13 showcase.

team photo or drawing here

Our team: _____

Our dance: A _____ B _____ … and it repeats!

Station check signs

Three stations. About 10 minutes each; two claps to move.

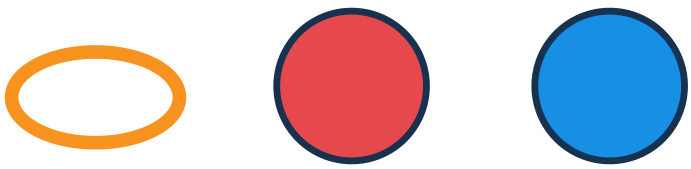
1 Pattern game with Teacher



Continue a pattern, say what comes next, sort by a rule, make your own pattern.

Teacher · 3–4 children at a time · about 4 minutes

2 Sorting Robot practice



Sort the cards into the hoops. Just for fun!

Assistant or self-running · not judged

Station check signs

Three stations. About 10 minutes each; two claps to move.

3

Me and Ayo’s pattern

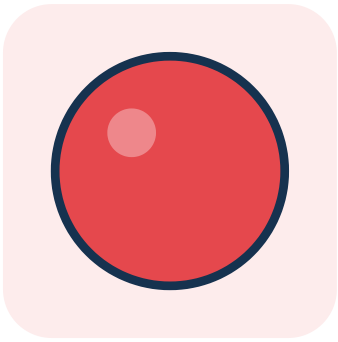


Draw yourself and Ayo with your favourite pattern.

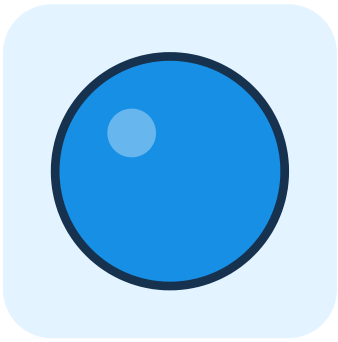
Self-running

Station 1 cards: pattern

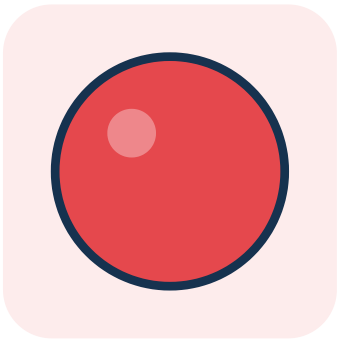
Item ①: lay red, blue, red, blue; the child adds 2 more. Print two sets.



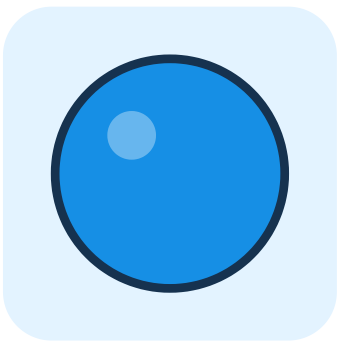
red



blue



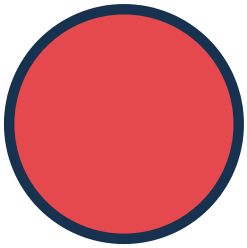
red



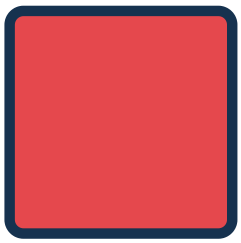
blue

Station 1 cards: 6 sorting cards (page 1 of 2)

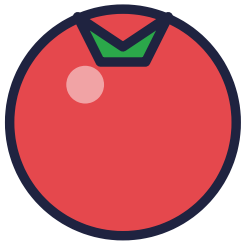
Item ③: 3 red and 3 blue, mixed shapes. The child sorts into 2 hoops and says the rule.



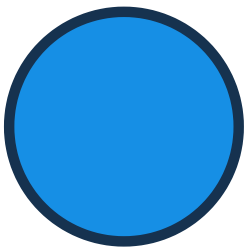
red circle



red square



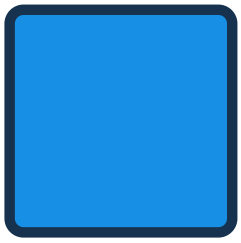
tomato



blue circle

Station 1 cards: 6 sorting cards (page 2 of 2) + move cards

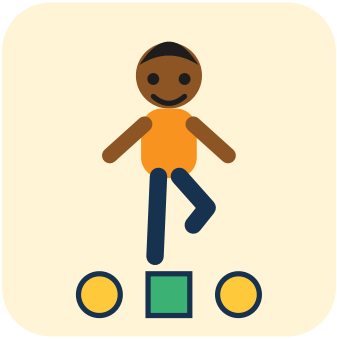
Finish the sorting set; hop and wave are for item ④.



blue square



blue bird



hop

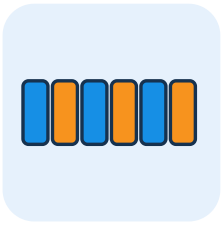


wave

Teacher clipboard checklist (with Ayo icons)

Two per page. Write E, D, S or X in each box.

Name: _____ Team: _____



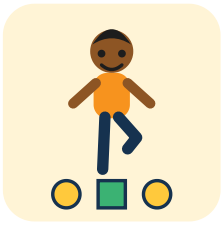
① continue ☐



② what next ☐

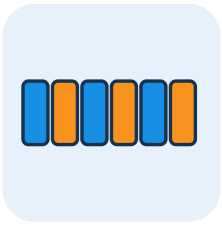


③ sort + rule ☐



④ my own ☐

Name: _____ Team: _____



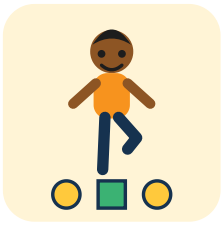
① continue ☐



② what next ☐



③ sort + rule ☐



④ my own ☐

Me and Ayo’s pattern

Station 3: draw yourself and Ayo with your favourite pattern. Name: _____

RHINOX SCIENTIFICA · THINK • MOVE • CODE!

Certificate of Achievement



This is to celebrate that

_____

has earned the **Step Thinker · Term 2** badge.
I can copy and continue a pattern, say what comes next, sort by one rule and make my own pattern.

_____ _____

Teacher Date

Nursery 1 · Term 2 · Foundation of Pattern Thinking

Step Thinker · Term 2 badges

Cut out and pin or stick on. Full-size artwork is in the badge PNG/SVG files.



Step Thinker · Term 2



Step Thinker · Term 2



Step Thinker · Term 2

“My pattern” take-home cards

Two per page. Children draw or stick their own AB pattern (A B A B), then take the card home.

My pattern

Name: _____

A	B	A	B

Ask me: “What is your pattern?” · “What comes next?” · “Where can we find a pattern at home?”

My pattern

Name: _____

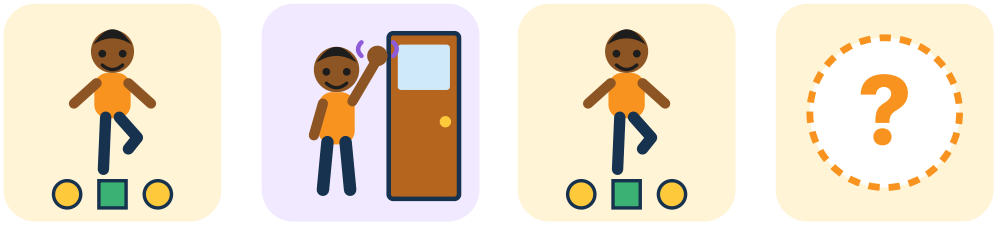
A	B	A	B

Ask me: “What is your pattern?” · “What comes next?” · “Where can we find a pattern at home?”

Showcase station signs

Children run these stations for families.

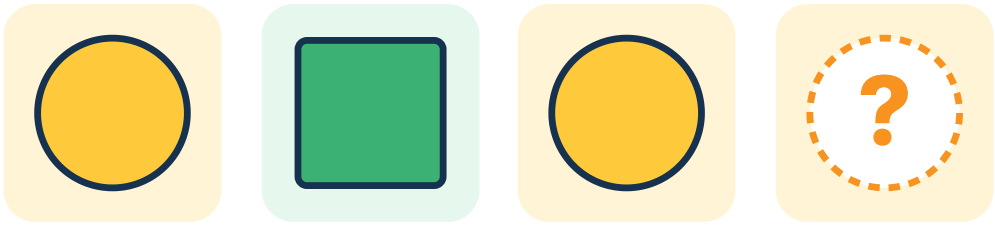
1 Ayo’s Robot Dance



Watch our dance! What comes next? Join in!

Run by our pattern thinkers

2 Pattern Hop



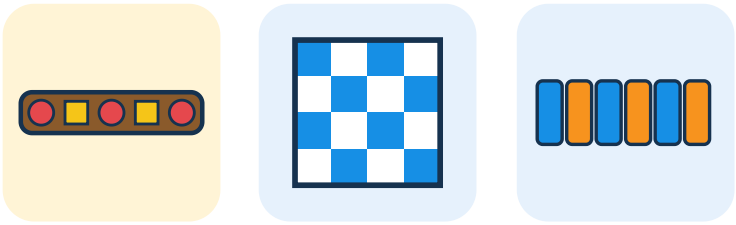
Hop the shape track with me. Say the shapes!

Families: try it!

Showcase station signs

Children run these stations for families.

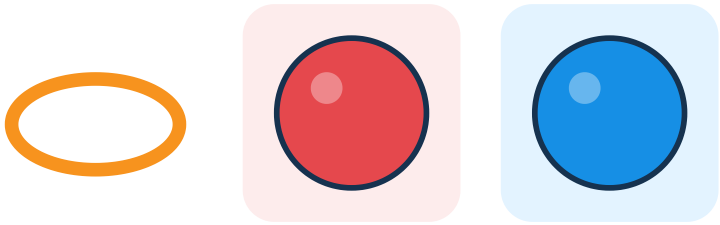
3 Pattern display



Look at our patterns. Can you find what repeats?

Our pattern belts, fabrics and strips

4 Sorting Robot (optional)



Sort these things. We will guess your rule!

Families: try it!

Step Star stickers · Nursery 1 · Term 2

Optional. Give a star when a child can do it on their own. Print on round 2-inch (50 mm) sticker paper, or cut out.

