10 · Project sheet · Ayo's Robot Dance

Term build · Robot / Maker Lab practical · Nursery 1 · Term 2 · Week 11

1. At a glance

Time	40 minutes (or 2 × 25 minutes: belt, then dance and show)
Group size	Teams of 3 (card-layer, robot, checker)
Learning goal	I can make Ayo dance a repeating AB pattern and say what comes next.
Coding idea	A dance program repeats: lay A B three times. Because it repeats, anyone can predict what comes next.
Week link	https://rhinoxscientifica.com/q/n1-t2-w11

2. Materials needed

Item	Per	Low-cost swap
Cut-out Ayo	team	A toy or a box with a face
Move cards + blank A–B strip	team	Draw moves on paper
Paper shapes + card strip for the belt (adult cuts)	team	Coloured paper squares or leaves
Glue sticks	team	Tape
Build card + picture checklist	team	Teacher reads aloud
Step Star stickers	child	Washable marker star on the hand

3. Safety and care

- An adult cuts all paper and card.
- Glue sticks only; wash hands after.
- Leave space to dance.
- Walk with an adult to show another class.

4. Before the lesson

1. Make the cut-out Ayos; cut belt shapes and strips.
2. Print build cards, checklists, move cards and photo frames.
3. Set up Station 1 and print its record sheet (Guide 05).

5. Step-by-step guide

Step	Teacher says	Children do
1	"Make Ayo a pattern belt."	Glue shapes: circle, square, circle, square
2	"Choose your 2 dance cards."	Choose card A and card B
3	"Lay them 3 times: A B A B A B."	Lay the full strip (no ↻)

Step	Teacher says	Children do
4	"Robot, dance it! Checker, point."	Dance and check; fix if needed
5	"Show time! Dance it 3 times, then stop."	Audience: "What comes next?"
6	"Tell us about your pattern."	"Our pattern is… and it repeats!"

6. Explore it

Question	Can the audience guess what comes next in our dance?
Predict	"Will they know our next move?"
Try	Dance the strip 3 times, then stop and ask.
Observe	"Did they say the right move?"
Explain	Our dance repeats, so everyone can predict what comes next.

7. Talk about it

1a. What is your dance pattern?

1b. How many times does it repeat?

1c. What comes next?

2a. What pattern is on Ayo's belt?

2b. What was your job in the team?

2c. Could you add a third move?

8. Support and stretch

Support	Card A given; the team chooses B; belt with 2 colours only.
Stretch (optional)	Add a third move (ABC) or a sound. Never assessed.

9. How we check

Observation only, not marked. Picture build checklist and a team photo.

Look for	Secure	With prompts	Not yet
Lays a full AB pattern (A B A B A B)	☐	☐	☐
Dances it 3 times	☐	☐	☐
Says what comes next	☐	☐	☐
Shows and presents the pattern	☐	☐	☐

10. Take-home and parent note

> **Dear parent or carer**
> Today your child's team made a **robot dance** for Ayo that repeats three times.
> At home: dance it together, then stop and ask "What comes next?"

11. Show and share

- Each team dances for the class (or another class) and says: "Our pattern is… and it repeats!"
- Take a team photo for the Week 13 showcase.
- Every child who helped build and dance gets a **Step Star sticker**.



The Step Star is a weekly sticker, not a badge. The term badge "Step Thinker · Term 2" is awarded in Week 13.