10 · Project sheet · Robot Dance Pattern

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

1. At a glance

Time	40 minutes (fits the lesson; 15 min if used on its own)
Group size	Groups of 4 with a leader (swap leaders)
Learning goal	I can move in a pattern like a robot.
Coding idea	Move cards in a repeating order are a pattern program; our bodies run it and continue it.
Week link	https://rhinoxscientifica.com/q/n1-t2-w2

2. Materials needed

Item	Per	Low-cost swap
Move cards: march, jump, clap, stamp	group	Hand signs for each move
Masking tape line	class	Stand in a row by the wall
Skip card (Stretch)	group	Skip it
Step Star stickers	child	Washable marker star on the hand

3. Safety and care

- Small jumps on the spot on a flat floor.
- An arm’s length between children.
- No spinning or turns.
- Rest if anyone is tired or dizzy.

4. Before the lesson

1. Print the move cards (Printables page 1).
2. Tape the line.
3. Read the lesson spec the evening before and lay out the cards.

5. Step-by-step guide

Step	Teacher says	Children do
1	“Lay the cards: march, jump, march, jump.”	Lay 4 move cards
2	“Dance it like robots! Say each move.”	March, jump, march, jump
3	“What comes next? Add 2 more cards.”	Add march, jump
4	“Dance it again, all 6!”	Dance the longer pattern
5	“Leader, show a new 2-move pattern.”	Leader moves; group watches
6	“Copy it and keep it going! Swap leaders.”	Group copies and continues

6. Explore it

Question	Can a body pattern be written as cards?
Predict	“If Musa dances clap, stamp, clap, stamp, which cards will we lay?”
Try	Watch a leader’s dance, then lay the cards for it.
Observe	“Do the cards match the dance?”
Explain	A dance pattern and a card pattern can be the same program: one we do, one we read.

7. Talk about it

1a. What was Ayo’s dance?

1b. What came after march?

1c. What did you add at the end?

2a. What pattern did your leader make?

2b. Which part repeated?

2c. How did you know what came next?

8. Support and stretch

Support	Dance beside the teacher; continue 1 move, then 2.
Stretch (optional)	A 3-move dance (march, jump, clap…) or skip–hop. Never assessed.

9. How we check

Observation only, not marked.

Look for	Secure	With prompts	Not yet
Dances a march–jump pattern	☐	☐	☐
Continues the card pattern 2 more	☐	☐	☐
Copies a leader’s 2-move pattern	☐	☐	☐

10. Take-home and parent note

> **Dear parent or carer**
> Today we danced a **robot dance pattern**: march, jump, march, jump.
> At home: put on music and dance clap, stamp, clap, stamp together.

11. Show and share

- Each group performs its dance; the class says the pattern aloud.
- Children show their invented 2-move patterns.
- Every child who moved in a pattern 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.