10 · Project sheet · Ayo Says Goodbye

Robot / Maker Lab practical · Nursery 1 · Term 1 · Week 4

1. At a glance

Time	40 minutes (fits the lesson; 15 min if used on its own)
Group size	Pairs, with the whole class checking at the door
Learning goal	I can say what comes first, next and last.
Coding idea	Cards on a FIRST–NEXT–LAST strip are a tiny program. The friend-robot runs it; the class checks it.
Week link	https://rhinoxscientifica.com/q/n1-t1-w4

2. Materials needed

Item	Per	Low-cost swap
FIRST–NEXT–LAST strip	pair	Three sheets of paper or three chairs labelled 1, 2, 3
Action cards: stand up, walk, wave	pair	Draw them, or act them
“Open the door” card (Stretch)	pair	Skip, or act it
A chair near the door	class	Children sit on the floor instead
Step Star stickers	child	Washable marker star on the hand

3. Safety and care

- Walk to the door, never run.
- The teacher stands by the door; nobody goes out of the room alone.
- Mind fingers when the door opens and closes.
- Large cards only (choking rule).

4. Before the lesson

1. Print and cut the strips and action cards (Printables pages 1–3).
2. Put a chair a few steps from the classroom door.
3. Read the lesson spec the evening before and lay out the cards.

5. Step-by-step guide

Step	Teacher says	Children do
1	“Ayo wants to say goodbye at the door. Let’s program him!”	Look at the chair and the door
2	“Put the FIRST card in the orange box.”	Pair lays “stand up” under FIRST
3	“What comes NEXT? What comes LAST?”	Pair lays “walk” then “wave”
4	“Friend-robot, run the program!”	One child stands up, walks to the door, waves

Step	Teacher says	Children do
5	“Class, was it first, next, last?”	Class says “First stand up, next walk, last wave!”
6	“Swap! Now the other friend is the robot.”	Repeat with roles swapped

6. Explore it

Question	What happens if the LAST card goes FIRST?
Predict	“Can Ayo wave goodbye before he stands up?” Thumbs up or down.
Try	Put “wave” under FIRST and act it. Then put the cards back in order and act it again.
Observe	“Was it a good goodbye when Ayo waved sitting down?”
Explain	First, next and last tell the robot the order. The order changes what happens.

7. Talk about it

1a. What did Ayo do first?

1b. What did he do next?

1c. What did he do last?

2a. When we make bread, what comes first?

2b. What comes next?

2c. What comes last?

8. Support and stretch

Support	Two cards only (first and last), then add the middle. The teacher points to each box and says the word.
Stretch (optional)	Add “open the door”: stand up → walk → open the door → wave. Say first, next, next, last. Never assessed.

9. How we check

Observation only, not marked.

Look for	Secure	With prompts	Not yet
Orders 3 cards on the strip	☐	☐	☐
Says first, next and last for the cards	☐	☐	☐
As the robot, acts the cards in the order laid	☐	☐	☐

10. Take-home and parent note

> **Dear parent or carer**
> Today we **programmed Ayo to say goodbye** using the words first, next and last.

> At home: use first, next, last when you cook or get ready: “First wash, next cook, last eat!”

11. Show and share

- Two pairs show their strip and act it at the door.
- The class reads each strip together: “first, next, last”.
- Every child who ordered 3 cards with first, next, last gets a **Step Star sticker**.



The Step Star is a weekly sticker, not a badge. The term badge “Step Thinker · Term 1” is awarded in Week 13.