10 · Project sheet · The Great Pattern Hunt

Robot / Maker Lab practical · Nursery 1 · Term 2 · Week 9

1. At a glance

Time	40 minutes (fits the lesson; 20 min if used on its own)
Group size	Teams of 4–6
Learning goal	I can find patterns around me.
Coding idea	Find the part that repeats, then copy it. Computers look for repeats in pictures and data too.
Week link	https://rhinoxscientifica.com/q/n1-t2-w9

2. Materials needed

Item	Per	Low-cost swap
Clear 2-part samples (striped cloth, zebra, tiles, uniform)	team	Sample cards (Printables)
AB colour cards	team	Coloured paper squares
Pattern-hunt sheet	team	Draw it on paper
Ankara or adire + a pineapple	class	Pictures (look-and-talk cards)
Cut-out Ayo	class	A soft toy
Step Star stickers	child	Washable marker star on the hand

3. Safety and care

- Walk, don’t run, on the hunt.
- Stay with your team inside the classroom.
- Look at window bars; don’t climb them.
- An adult handles the pineapple (prickly skin).

4. Before the lesson

1. Choose 2-part samples only for copying; set aside Ankara, adire and pineapple for looking.
2. Check the room has patterns to find; add a striped mat or cloth if needed.
3. Print the hunt sheets, sample cards and AB cards.

5. Step-by-step guide

Step	Teacher says	Children do
1	“We are pattern hunters! Hand over your eyes: find!”	Hand sign for find
2	“Walk with your team. Find 2 patterns.”	Walk and look; point to patterns
3	“Show me! What repeats?”	“Blue, white, blue, white!”

Step	Teacher says	Children do
4	“Copy it with your bodies.”	Stand, crouch, stand, crouch
5	“Now copy your sample with cards.”	Lay AB cards: red, yellow, red, yellow
6	“Show Ayo your pattern!”	Tell Ayo the pattern

6. Explore it

Question	Where can we find patterns?
Predict	“Do you think there is a pattern on the floor? On the window?”
Try	Walk and look for things that repeat.
Observe	“What part comes again and again?”
Explain	A pattern has a part that repeats. Patterns are everywhere!

7. Talk about it

1a. Where did you find a pattern?

1b. What part repeats?

1c. How did you copy it?

2a. What colours and shapes do you see in the Ankara?

2b. Is there a pattern on your clothes today?

2c. Which pattern was your favourite?

8. Support and stretch

Support	Give the child a 2-colour striped cloth; point and say the colours together.
Stretch (optional)	Find the repeating part in Ankara or adire, or a pattern in a machine, and say its rule. Never assessed.

9. How we check

Observation only, not marked.

Look for	Secure	With prompts	Not yet
Finds a pattern in familiar objects	☐	☐	☐
Says what repeats	☐	☐	☐
Copies it with cards or body	☐	☐	☐

10. Take-home and parent note

> **Dear parent or carer**
> Today we went on a **pattern hunt** and found patterns on clothes, floors, windows and fabric.
> At home: hunt for patterns together and ask “What repeats?”

11. Show and share

- Teams show their 2 patterns; the class says the repeat.
- Everyone says: “Patterns are everywhere!”
- Every child who found and copied 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.