**Note this is the version that was given Fall 2020**

ASSENT

“We want to see what you know about some different things like patterns and counting. I might make a recording of what we do so I can look at it later. Will you answer some questions and play some games with me?”
Early Patterning Assessment (EPA)


Link to Open Lab Assessment of EPA 2020 - online: https://open-lab.online/invite/EarlyPatterningAssessmentOnline/
Repeating Patterns
DEMO ITEM

Identify Repeating Pattern

“Look at this pattern. [sweeping gesture from the left to the right of the pattern] This is a repeating pattern because it has a part that repeats [point to the part that repeats]. See the part inside the black box. That is the part that repeats and makes this a pattern.

“Now it’s your turn.”
1-4. Identify Pattern

“Help me decide if these are patterns.

Practice item: “Is this a pattern?” [while pointing to row of red and yellow boxes]
   If correct: “That’s right! This *is* not a pattern because there is no part that repeats.”
   If incorrect: “That’s not quite right. This is *not* a pattern because there is no part that repeats.”

Test items: only showing one at a time, ask “Is this a pattern?” [while gesturing across the whole pattern]

If child doesn’t respond or looks confused say “Please tell me yes or no if you think this is a pattern”
Practice
PRACTICE ITEM - Missing AB

“What is missing in the pattern? [Gesture to the box on the right of the pattern] Use one of these [Gesture to the response option pictures].

If child doesn’t respond or looks confused say: “Choose one of these [gesture to response items] to show me what goes in the box” [point to blank box]

If correct: “That’s right! The sun is missing because this repeating pattern goes: sun, umbrella, sun, umbrella, sun, umbrella” [point to each item in the pattern as you name them]

If incorrect: “That’s not quite right, [remove their answer and place the sun in the blank] the sun is missing because this repeating pattern goes: sun, umbrella, sun, umbrella, sun, umbrella” [point to each item in the pattern as you name them]
Practice
5. Missing Item AB

“What is missing in the pattern? [sweeping gesture across the pattern] “Use one of these beads” [gesture to the response options]

If child looks confused or unsure say: “Choose one of these [gesture to response items] to show me what goes in the box” [point to blank box]
5.
6. Missing Item ABB

“What is missing in the pattern? [sweeping gesture across the pattern] “Use one of these beads” [gesture to the response options]

If child looks confused or unsure say: “Choose one of these [gesture to response items] to show me what goes in the box” [point to blank box]
6.
7. Missing Items ABC

“What is missing in the pattern? [sweeping gesture across the pattern] “Use one of these beads” [gesture to the response options]

If child looks confused or unsure say: “Choose one of these [gesture to response items] to show me what goes in the box” [point to blank box]
7.
8. - Missing item ABCC

“What is missing in the pattern? [sweeping gesture across the pattern] “Use one of these beads” [gesture to the response options]

If child looks confused or unsure say: “Choose one of these [gesture to response items] to show me what goes in the box” [point to blank box]
9. **Extend AB item:**

Extend: “What comes next in the pattern?” [Gesture to the circles on the right of the pattern]. “Use one of these groups of M&M’s” [gesture to the response options]

If child doesn’t respond or looks confused say: “Choose one of these [gesture to response items] to show me what goes in the box” [point to blank box]
10. **Extend ABC item:**

Extend: “What comes next in the pattern?” [Gesture to the circles on the right of the pattern]. “Use one of these groups of M&M’s” [gesture to the response options]

If child doesn’t respond or looks confused say “Choose one of these [gesture to response items] to show me what goes in the box” [point to blank box]
11. Extend ABCD

ABCD item: “What comes next in the pattern?” [Gesture to the right of the pattern]. “Use one of these groups of crayons” [gesture to the response options]

If child doesn’t respond or looks confused say: “Choose one of these [gesture to response items] to show me what goes in the box” [point to blank box]
12. **Extend AAB item:**

“What comes next in the pattern?” [Gesture to the right of the pattern]. “Use one of these groups of shapes” [gesture to the response options]

If child doesn’t respond or looks confused say: “Choose one of these [gesture to response items] to show me what goes in the box” [point to blank box]
13. **Abstract AB:**

“I made a pattern with these pictures. [Gesture to model pattern.] “Which of these patterns below is the same kind of pattern as the one I made, but with different pictures?” [Gesture to each pattern separately]

If child doesn’t respond or looks confused say: “Choose one of these” [point to 3 response options] “to show me which is the same kind of pattern as the one I made” [point to blank box]
13.
14. **Abstract AAB item**

“I made a pattern with these pictures. [Gesture to model pattern.] “Which of these patterns below is the same kind of pattern as the one I made, but with different pictures?” [Gesture to each pattern separately]

If child doesn’t respond or looks confused say: “Choose one of these” [point to 3 response options] “to show me which is the same kind of pattern as the one I made” [point to blank box]
15. Abstract AABC Item

“I made a pattern with these pictures. [Gesture to model pattern.] “Which of these patterns below is the same kind of pattern as the one I made, but with different pictures?” [Gesture to each pattern separately]

If child doesn’t respond or looks confused say: “Choose one of these” [point to 3 response options] “to show me which is the same kind of pattern as the one I made” [point to blank box]
15.
15.
16. Abstract ABCD item:

“I made a pattern with these pictures. [Gesture to model pattern.] “Which of these patterns below is the same kind of pattern as the one I made, but with different pictures?” [Gesture to each pattern separately]

If child doesn’t respond or looks confused say: “Choose one of these” [point to 3 response options] “to show me which is the same kind of pattern as the one I made” [point to blank box]
16.
** 2 MIN BREAK: stand up with the child and do some stretches, play a short game of simon says, or any quick body movement activity before moving on to repeating patterns

Growing Patterns
DEMO ITEM

Identify Pattern

“Look at this pattern. [sweeping gesture from the left bottom to the right bottom of the pattern] This is a growing pattern because it changes the same amount each time [point to each individual line of bananas]. This pattern is getting smaller, but you will also see some patterns that get bigger.

“Now it’s your turn.”
Demo.
PRACTICE ITEM: Identify Pattern

“Is this a growing pattern?” [sweeping gesture from the left bottom to the right bottom of the pattern]

If child doesn’t respond or looks confused say: “Just give me your best guess”
Practice.
Identify Pattern (would become items 21-26)

“Help me decide if these are patterns.

If correct on practice: “That’s right! This is not a pattern because it does not change the same amount each time.”
If incorrect on practice: “That’s not quite right. This is not a pattern because it does not change the same amount each time.”

Test items: only showing one at a time, ask “Is this a pattern?” [while gesturing across the whole pattern]

If child doesn’t respond or looks confused say “Please tell me yes or no if you think this is a pattern”
21.
23.
25. 10 8 6 4 2
PRACTICE ITEM

“Find the missing group of stars [gesture to the response options] that goes in this pattern [sweeping gesture from the left bottom to the right bottom of the pattern].”

If child is confused say: “Choose one of these [gesture to response items] to show me what goes in the box” [point to blank box]

If correct: “That’s right! The group of 4 stars goes here because this growing pattern goes 1 star, 2 stars, 3 stars, 4 stars, 5 stars.” [point to each line of stars as you say them] This pattern is getting bigger, but you will also see some patterns that get smaller.

If incorrect: “That’s not quite right. The group of 4 stars [point to correct answer] goes here because this growing pattern goes 1 star, 2 stars, 3 stars, 4 stars, 5 stars.” [point to each line of stars as you say them]. This pattern is getting bigger, but you will also see some patterns that get smaller.
Practice.
Practice.
27. Missing Add 1 with objects

Missing: “Find the missing group of apples [gesture to the response options] that goes in this pattern [sweeping gesture across the pattern from left to right at the bottom].”

If child doesn’t respond or looks confused say: “Choose one of these [gesture to response items] to show me what goes in the box” [point to blank box]

If still confused or students asks you if they’re correct say: “Just give me your best guess”
27.
27.
28. **Missing Subtract 1 with numerals**

Missing: “Find the missing number [gesture to the response options] that goes in this pattern [sweeping gesture across the pattern from left to right at the bottom].”

If child doesn’t respond or looks confused say: “Choose one of these [gesture to response items] to show me what goes in the blank” [point to blank spot]

If still confused or students asks you if they’re correct say: “Just give me your best guess”
29. **Missing Add 2 with numerals**

Missing: “Find the missing number [gesture to the response options] that goes in this pattern [sweeping gesture across the pattern from left to right at the bottom].”

If child doesn’t respond or looks confused say: “Choose one of these [gesture to response items] to show me what goes in the blank” [point to blank spot]

If still confused or students asks you if they’re correct say: “Just give me your best guess”
30. Missing Subtract 2 with objects

Missing: “Find the missing group of cubes [gesture to the response options] that goes in this pattern [sweeping gesture across the pattern from left to right at the bottom]”

If child doesn’t respond or looks confused say: “Choose one of these [gesture to response items] to show me what goes in the box” [point to blank box]

If still confused or students asks you if they’re correct say: “Just give me your best guess”
30.
31.  **Missing Subtract 1 with large numerals**

Missing: “Find the missing number [gesture to the response options] that goes in this pattern [sweeping gesture across the pattern from left to right at the bottom].”

If child doesn’t respond or looks confused say: “Choose one of these [gesture to response items] to show me what goes in the blank” [point to blank spot]

If still confused or students asks you if they’re correct say: “Just give me your best guess”
32. **Extend Add 1 with objects**

Extend: “What comes next in this pattern?” [sweeping gesture from the left bottom to the right bottom of the pattern then place response options in front of child]

If child doesn’t respond or looks confused say: “Choose one of these [gesture to response items] to show me what goes in the box” [point to blank box]

If still confused or students asks you if they’re correct say: “Just give me your best guess”
32.
33. **Extend Subtract 1 with numerals**

Extend: “What comes next in this pattern?” [sweeping gesture from the left bottom to the right bottom of the pattern then place response options in front of child]

If child doesn’t respond or looks confused say: “Choose one of these [gesture to response items] to show me what goes in the blank” [point to blank spot]

If still confused or students asks you if they’re correct say: “Just give me your best guess”
9 8 7 6
34. **Extend Add 2 with numerals**

Extend: “What comes next in this pattern?” [sweeping gesture from the left bottom to the right bottom of the pattern then place response options in front of child]

If child doesn’t respond or looks confused say: “Choose one of these [gesture to response items] to show me what goes in the blank” [point to blank spot]

If still confused or students asks you if they’re correct say: “Just give me your best guess”
10
6
9
35. **Extend Subtract 2 with objects**

Extend: “What comes next in this pattern? [sweeping gesture from the left bottom to the right bottom of the pattern then place response options in front of child]

If child doesn’t respond or looks confused say: “Choose one of these [gesture to response items] to show me what goes in the box” [point to blank box]

If still confused or students asks you if they’re correct say: “Just give me your best guess”
36. Extend Add 2 with large numerals

Extend: “What comes next in this pattern? [sweeping gesture from the left bottom to the right bottom of the pattern then place response options in front of child]

If child doesn’t respond or looks confused say: “Choose one of these [gesture to response items] to show me what goes in the box” [point to blank box]

If still confused or students asks you if they’re correct say: “Just give me your best guess”
36. 17 14 18
DEMO ITEM

Identify Pattern Unit

“Look at this pattern. [sweeping gesture from the left bottom to the right bottom of the pattern] This is a growing pattern because it grows by 2 stars each time [point to each individual line of stars]

“Now it’s your turn”
Demo.
PRACTICE ITEM: Identify Pattern Unit Add 1 with objects

“Tell me how this pattern grows” [sweeping gesture from the left bottom to the right bottom of the pattern]

If child doesn’t respond or looks confused say: “Just give me your best guess”
Practice.
37. Identify Pattern Unit Subtract 2 with objects

“Tell me how this pattern grows” [sweeping gesture from the left bottom to the right bottom of the pattern]

If child provides a numeric answer, score 1

If child doesn’t respond or looks confused say: “Just give me your best guess”
38. **Identify Pattern Unit Add 2 with numerals**

“Tell me how this pattern grows” [sweeping gesture from the left bottom to the right bottom of the pattern]

If child provides a numeric answer, score 1

If child doesn’t respond or looks confused say: “Just give me your best guess”