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?"

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."

Demo

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
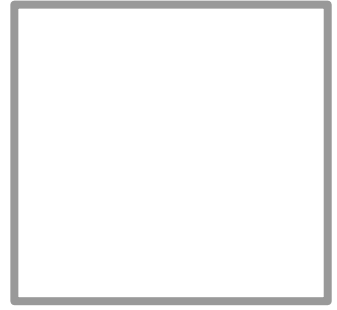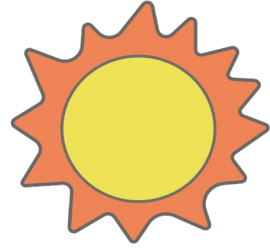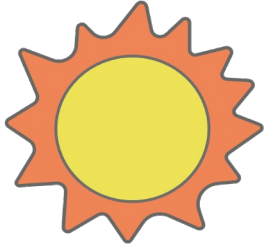
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PRACTICE ITEM - Missing AB

"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
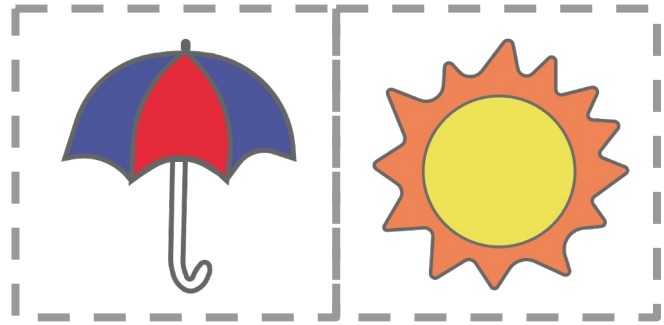me what goes in the box" [point to blank box]

      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]
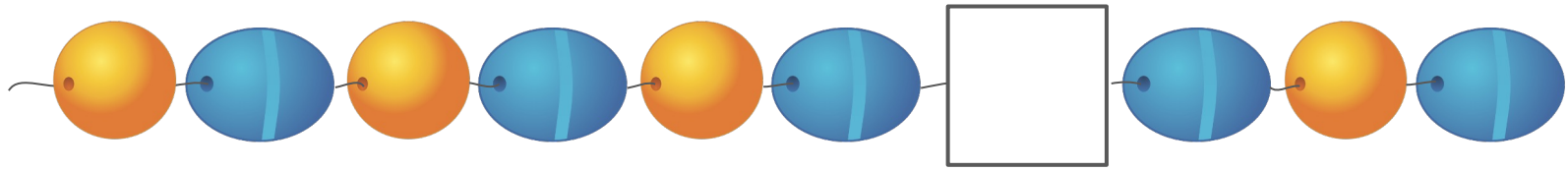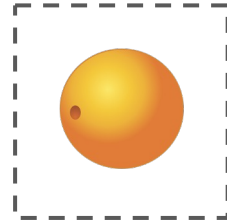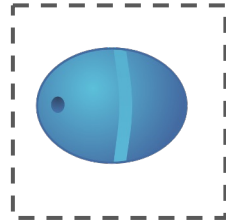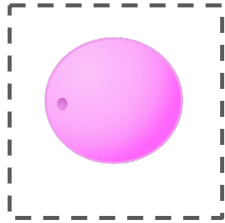
Practice

Practice

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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]
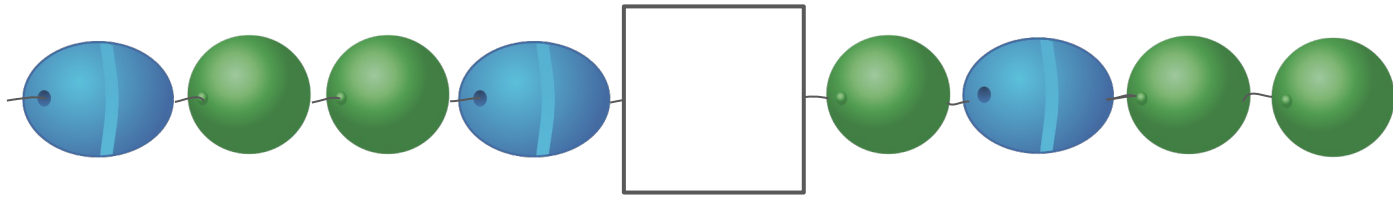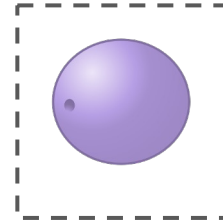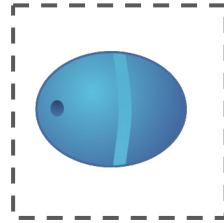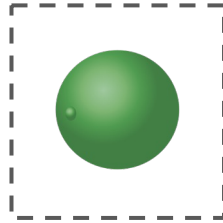
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6. Missing Item ABB

"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]
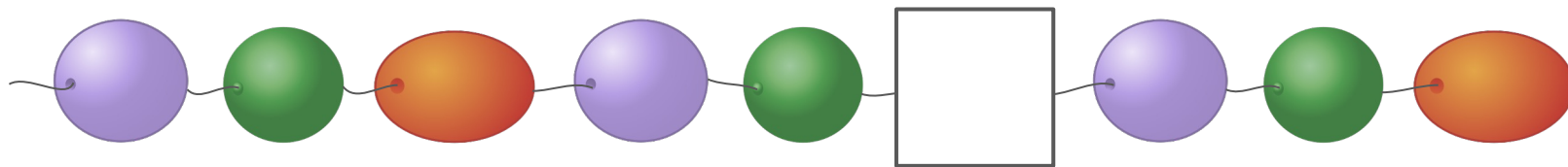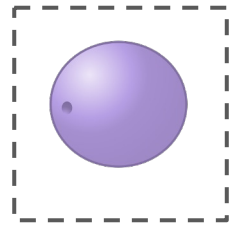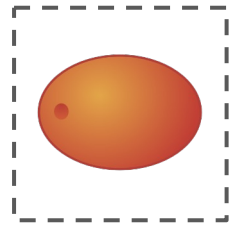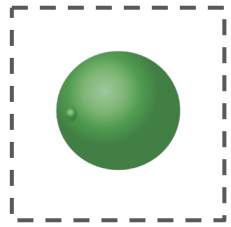
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7. Missing Items ABC

"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]
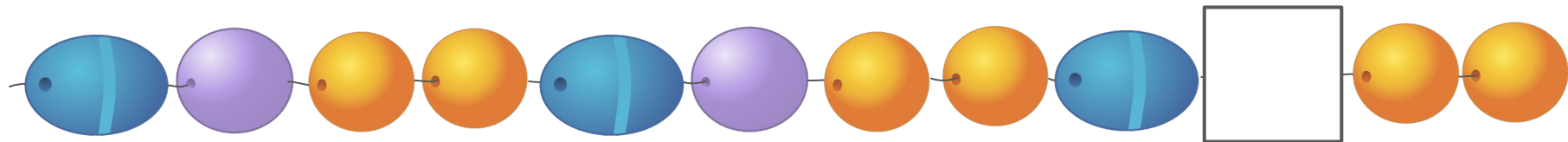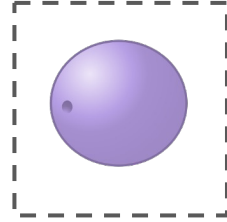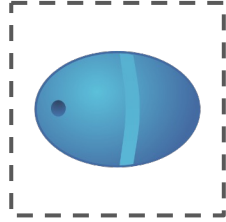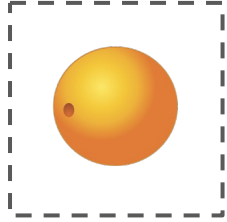
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8. - Missing item ABCC

"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]
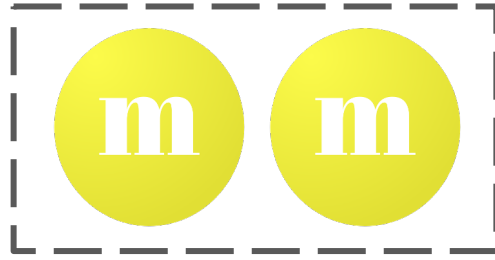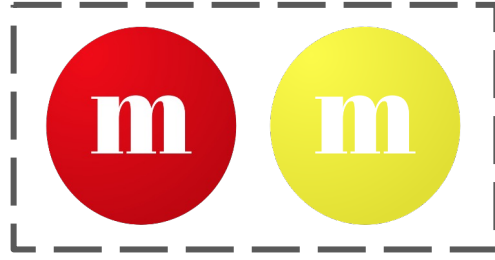
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9.   **Extend AB item:**

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]
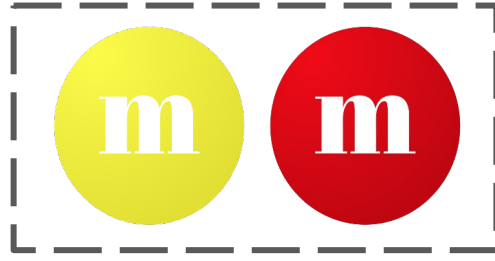
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10.   **Extend ABC item:**

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]
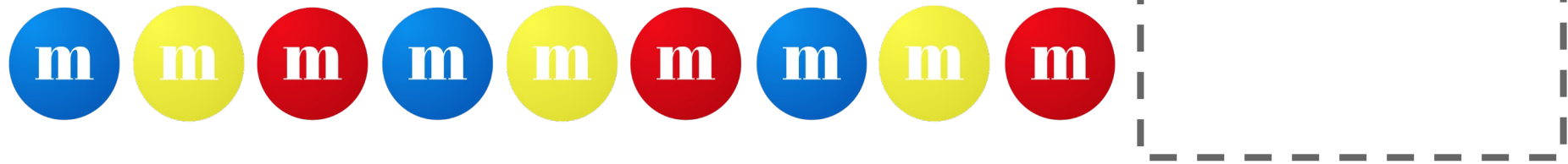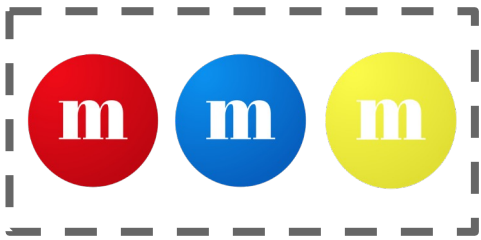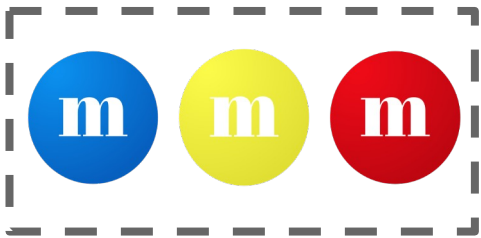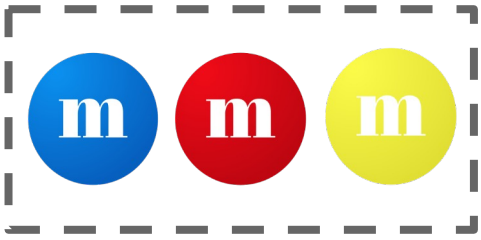
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11.   Extend ABCD

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]
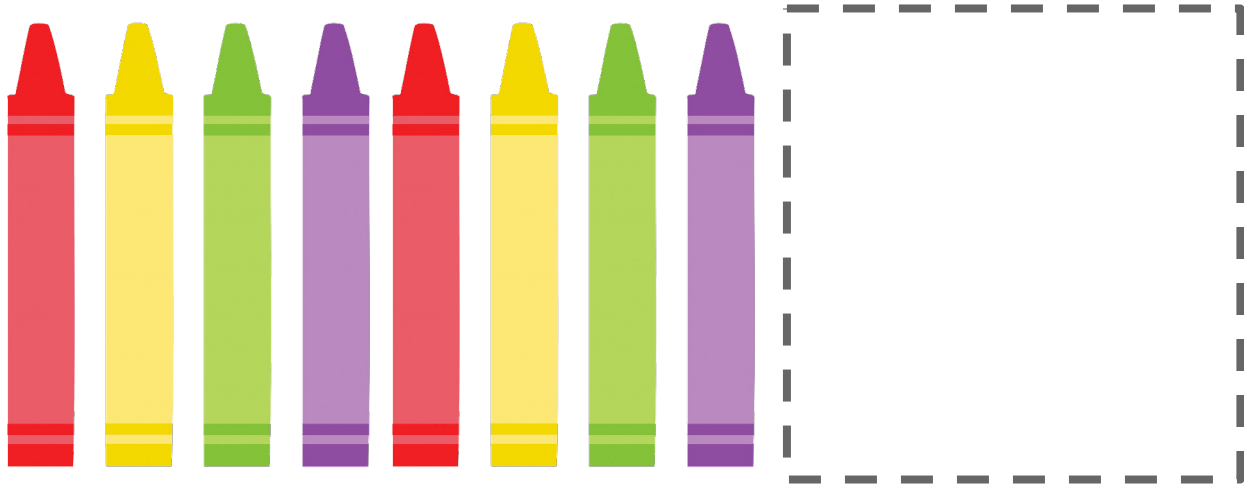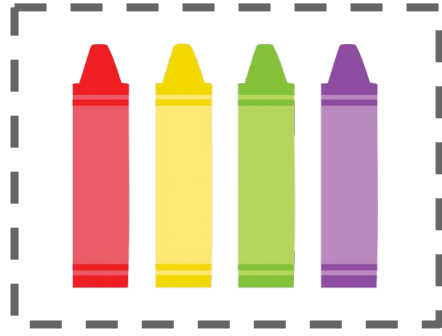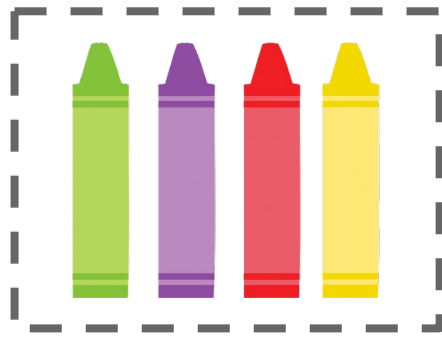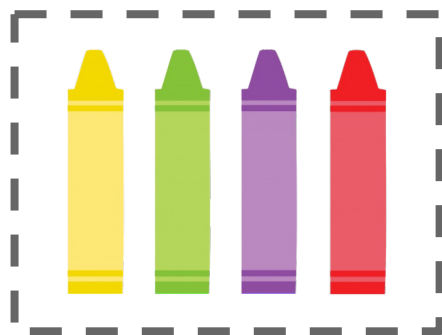
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12.   **Extend AAB item:**

 "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]
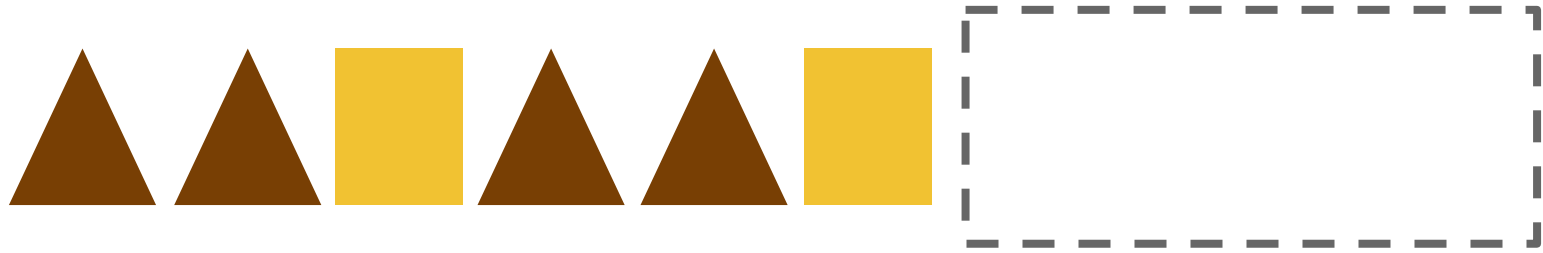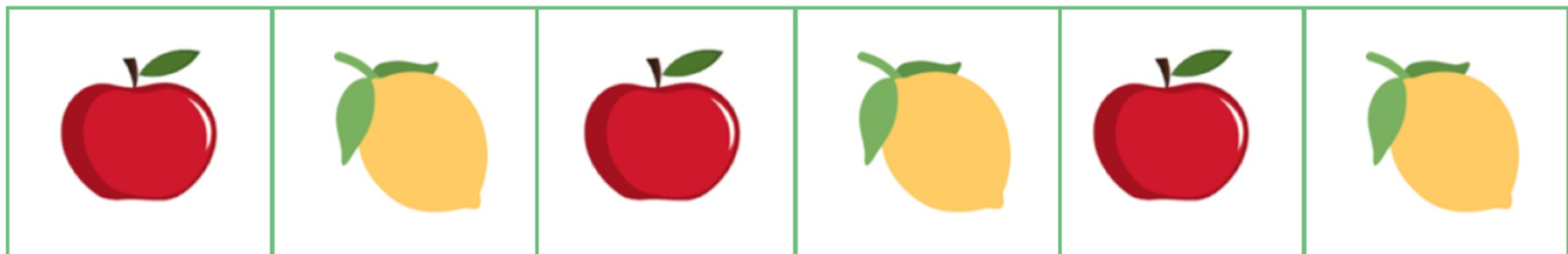
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13.   Abstract AB:

"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 model pattern]
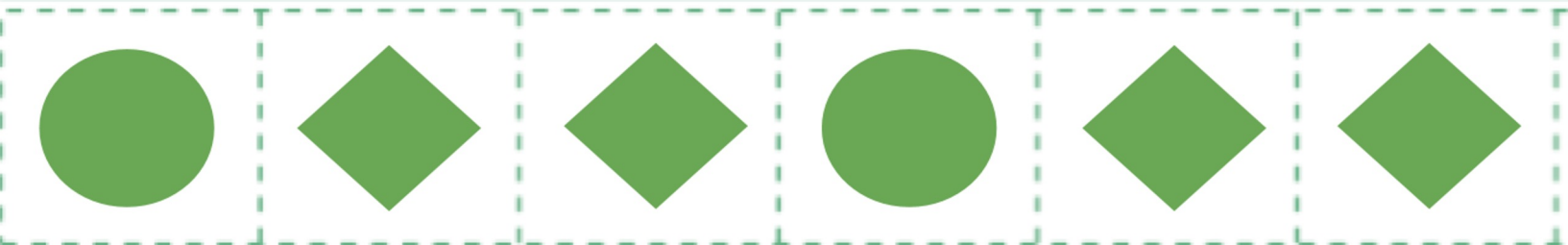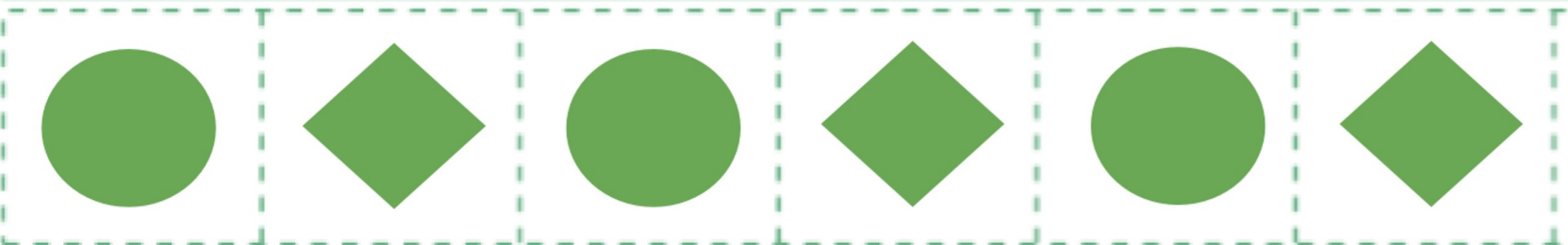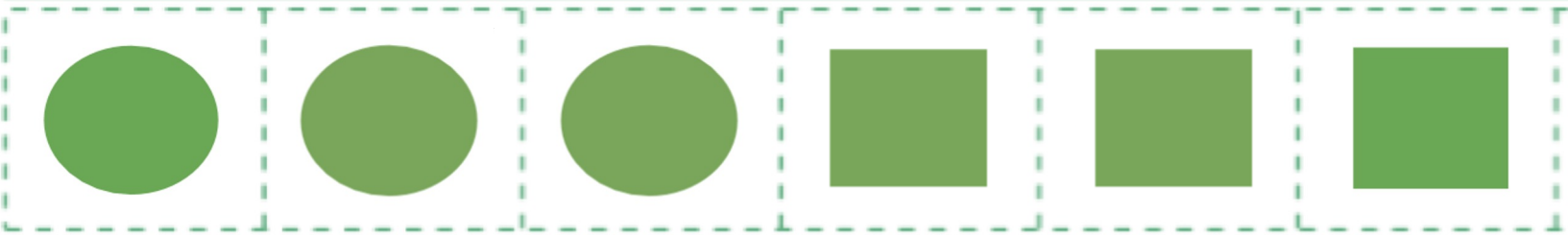
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14.   Abstract AAB item

"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 model pattern]
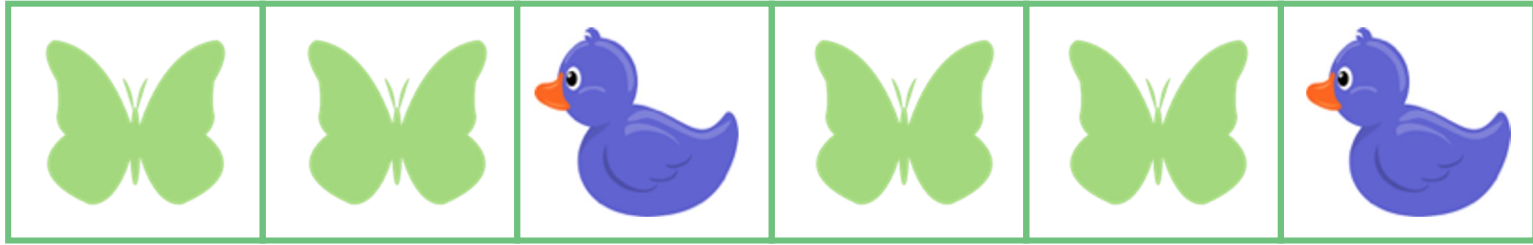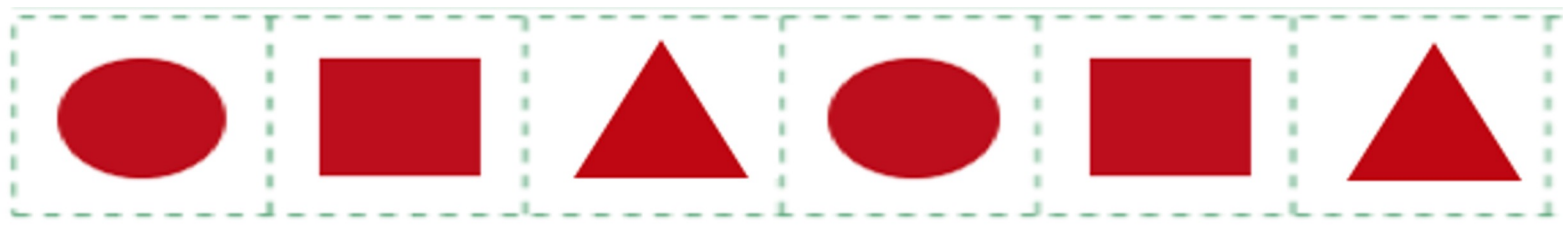
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15. **Abstract AABC Item**

"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 model pattern]
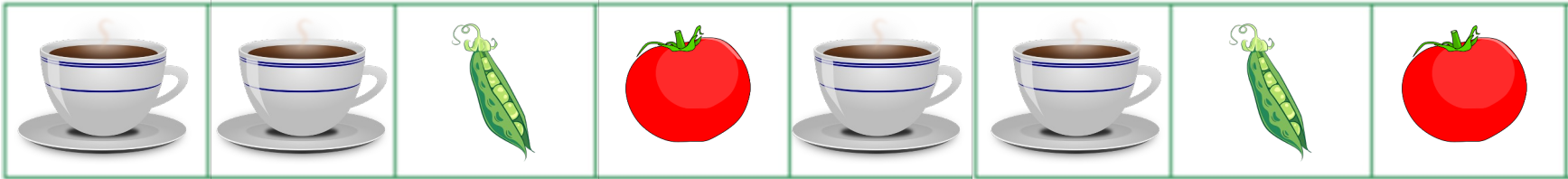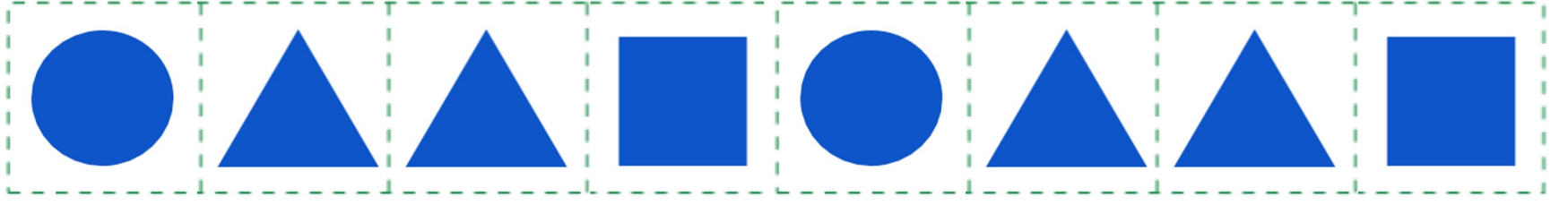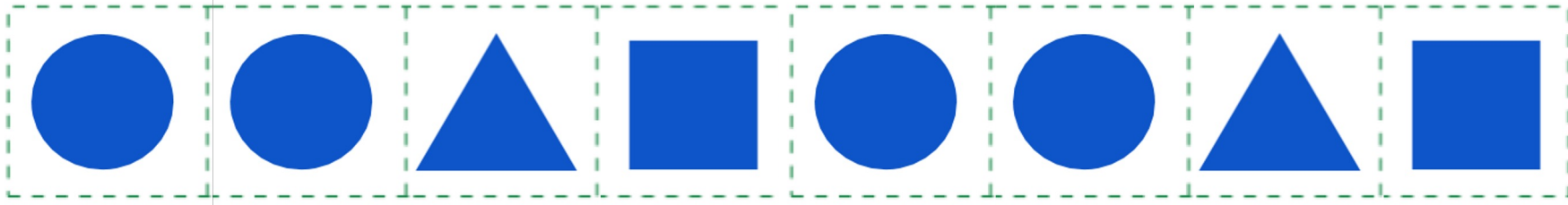
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16.   **Abstract ABCD item:**

"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 model pattern]
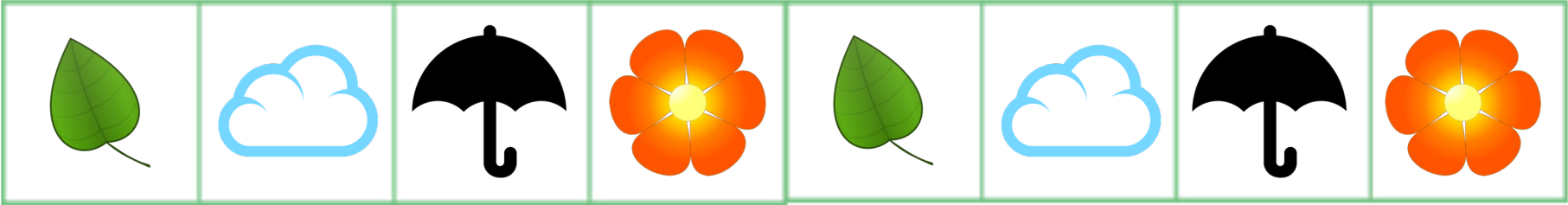
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16.

DEMO ITEM - Identify Pattern Unit

"Look at this pattern. This is the smallest part of the pattern that repeats." [with sheet facing student, circle the first ABB part in front of them]

After a few seconds, erase the circle and hand the child the marker saying "Now, it's your turn"
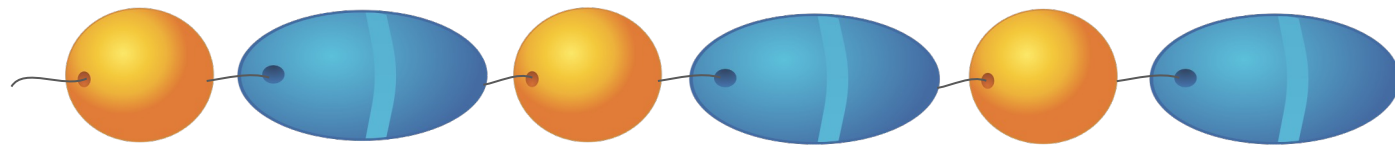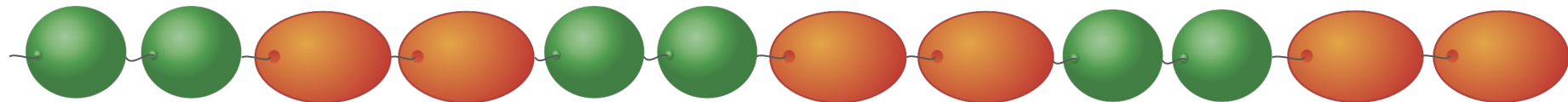
Demo

17 & 18 ID Pattern Unit Test Items

17 - ID Pattern Unit AB: "Circle the smallest part of the pattern that repeats"

18 - ID Pattern Unit AABB: "Circle the smallest part of the pattern that repeats"
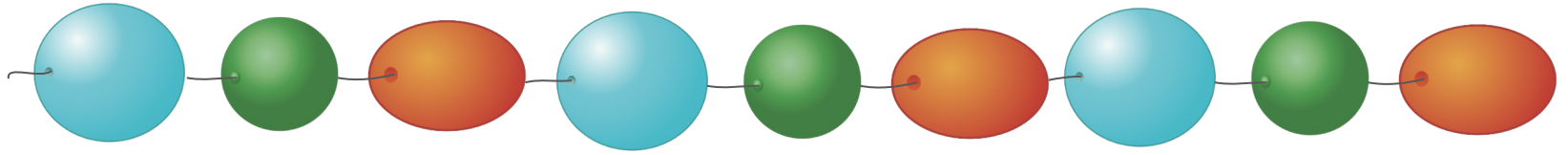
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19 & 20 ID Pattern Unit Test Items

19 - ID Pattern Unit ABC: "Circle the smallest part of the pattern that repeats"

20 - ID Pattern Unit ABCD: "Circle the smallest part of the pattern that repeats"

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