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| **Subject:** | Math |
| **Title:** | Extending Patterns |
| **Grade Level:** | Kindergarten |
| **Purpose:** | To be able to identify and extend patterns. |
| **Curricular**  **Connections:** | * Demonstrate an understanding of repeating patterns (two or three elements) by identifying and extending patterns using manipulatives, sounds and actions. |
| **Materials:** | * Pre-laminated set of pattern strips and Puckster characters (make enough copies so class can work in pairs) * Chartpaper/board and marker |
| **Activity:** | 1. Review what a pattern is. Explain that they are going to learn how to extend a pattern. 2. Model the beginning of a **sound pattern**, snap-clap-snap-clap-snap. **Ask:** what comes next? 3. Model the beginning of an **action pattern**. Touch toes-knees- waist-toes-knees-waist. **Ask:** what comes next? 4. Draw a simple pattern on the board with some blank lines at the end. **Ask:** what part of this pattern keeps repeating? Circle the repeating part of pattern. Students orally say the pattern using the names of the shapes.   When they get to the blank lines - **Ask:** what comes next? How do you know?   1. Pair students up and give each pair a set of pattern strips and Puckster characters. Tell students they need to extend each pattern by solving which character(s) come next. 2. Gather students and have them share their experiences. |
| **Extension:** | 1. Students create their own patterns using classroom manipulatives. They then extend a classmate’s pattern. |
| **Assessment:** | 1. Teacher circulates during learning stage and provides extra support where needed. 2. Performance task: Students need to extend a pattern that the teacher creates using classroom manipulatives. |

**Extending Patterns**

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| **Manny.jpg** | **Puckster 1.jpg** | **Sarah.jpg** | **Manny.jpg** | **Puckster 1.jpg** | **Sarah.jpg** |  |

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| **Francois.jpg** | **Francois.jpg** | **Yuan.jpg** | **Francois.jpg** | **Francois.jpg** | **Yuan.jpg** |  |

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| **Puckster 1.jpg** | **Charlie.jpg** | **Charlie.jpg** | **Puckster 1.jpg** | **Charlie.jpg** | **Charlie.jpg** |  |

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| **Sarah.jpg** | **Sarah.jpg** | **Manny.jpg** | **Manny.jpg** | **Sarah.jpg** | **Sarah.jpg** | **Manny.jpg** |
| **Manny.jpg** | **Sarah.jpg** |  |  |  |  |  |

**Puckster Characters**

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| **Yuan.jpg** | **Yuan.jpg** | **Yuan.jpg** | **Yuan.jpg** | **Yuan.jpg** | **Yuan.jpg** | **Yuan.jpg** |
| **Manny.jpg** | **Manny.jpg** | **Manny.jpg** | **Manny.jpg** | **Manny.jpg** | **Manny.jpg** | **Manny.jpg** |
| **Francois.jpg** | **Francois.jpg** | **Francois.jpg** | **Francois.jpg** | **Francois.jpg** | **Francois.jpg** | **Francois.jpg** |
| **Charlie.jpg** | **Charlie.jpg** | **Charlie.jpg** | **Charlie.jpg** | **Charlie.jpg** | **Charlie.jpg** | **Charlie.jpg** |
| **Sarah.jpg** | **Sarah.jpg** | **Sarah.jpg** | **Sarah.jpg** | **Sarah.jpg** | **Sarah.jpg** | **Sarah.jpg** |