codeSpark ACADEMY

PATTERN RECOGNITION

finding and understanding similarities in ideas and objects to help solve problems

LOOP

repeat a sequence of instructions

1. BUILD BOX.
2. REPEAT.

Overview

Pattern recognition requires finding similarities in ideas to help solve problems and is one component of computational thinking. A **loop** repeats a sequence of instructions which can include patterns.
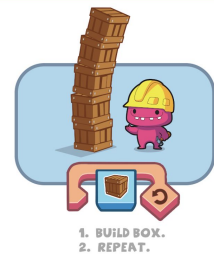
Instructions

This *Guess My Loopy Pattern* printable focuses on teaching students about pattern recognition and loops. Students will observe a pattern to figure out what Foo should come next. Ask students how many times they see each pattern repeat, or loop, to check for understanding.

Pattern recognition can help students understand loops and how they work.

Have students complete the Tool Trouble puzzles in the codeSpark Academy app after they have completed the worksheet.
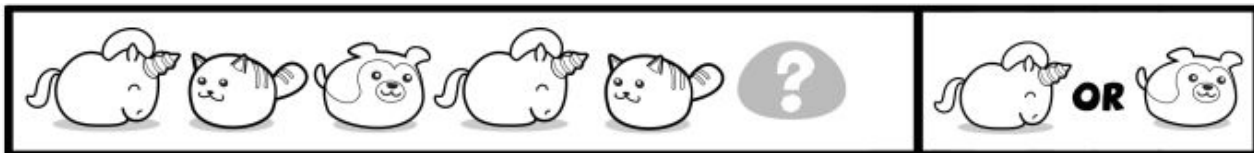
NAME: _____

DATE: _____

GUESS MY LOOPY PATTERN

Finding patterns is very important and helps us identify things that are similar. The more patterns we can find, the easier it will be to complete tasks.

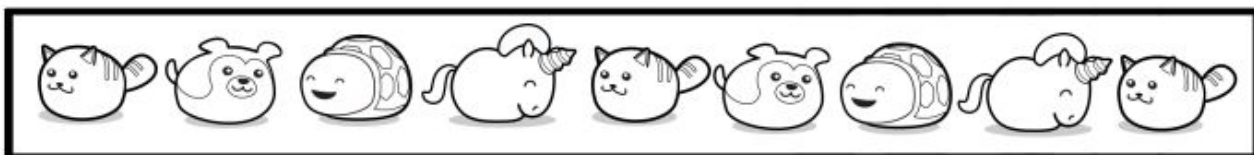**1.** Guess My Pattern. Circle the animal Foo that comes next in the pattern:

What is the pattern? _____
Circle the repeating pattern.
How many times does this pattern loop (repeat)? _____

2. Guess My Pattern. Circle the animal Foo that comes next in the pattern:

What is the pattern? _____
Circle the repeating pattern.
How many times does this pattern loop (repeat)? _____

3. Look at this pattern:

Use Abstraction to decide which Foos are needed to continue this pattern.
Circle the Foos included in the pattern below.
Put an X over the Foos that are not important in the pattern: