



Jungle Puzzle

Introduction

Objective:

Students will observe patterns and identify missing elements of the patterns

Academic Content Standards:

✦ National Standards

- Understand patterns, relations, and functions.
- Represent and analyze mathematical situations and structures using algebraic symbols.
- Use mathematical models to represent and understand quantitative relationships.
- Analyze change in various contexts.

✦ Ohio Standard

Patterns, Functions and Algebra Standard

Students use patterns, relations and functions to model, represent and analyze problem situations that involve variable quantities.

Students analyze, model and solve problems using various representations such as tables, graphs and equations.

Benchmark:

A. Sort, classify and order objects by size, number and other properties, and describe the attributes used.

Indicator:

Grade 2 – Use patterns to make generalizations and predictions; e.g., determine a missing element in a pattern.

Grade 3 - 1 Extend multiplicative and growing patterns, and describe the pattern or rule in words.

Getting Started

Materials:

- Jungle Puzzle Activity Sheet

Vocabulary:

- Pattern
- Relationship
- Model
- Analyze

Lesson

Set Up:

- Copy a class set of the Jungle Puzzle Activity Sheet
- Make an overhead transparency of the Jungle Puzzle Activity Sheet

Learning Activity:

- Pass out the Jungle Puzzle Activity Sheet to students.
- Complete the first puzzle together, as a class, on the overhead.
- Have the students try the next puzzle on their own.
- Go over the second puzzle on the overhead.
- Have students then complete the rest of the puzzles on their own, and offer assistance when needed.
- *****As a variation for students who may become overwhelmed or confused by looking at all of the puzzles on the page, have them cut each puzzle into a strip so they may look at one puzzle at a time.

Evaluation and Follow-Up

Assessment Tools and Methods:

Use the Jungle Puzzle Activity Sheet to assess if students are able to identify patterns. Students should explain orally what the pattern is and what should fill the missing blank.

Jungle Puzzle

Look at the patterns below. Decide what animal is missing and write its name in the blank.



Choices



panther



snake



wolf



elephant



bear