Numerical Patterns & Relationships

Today's Standard

5.OA.B3 - Generate two numerical patterns using two given rules. Identify apparent relationships between corresponding terms. Form ordered pairs consisting of corresponding terms from the two patterns, and graph the ordered pairs on a coordinate plane. For example, given the rule "Add 3" and the starting number 0, and given the rule "Add 6" and the starting number 0, generate terms in the resulting sequences, and observe that the terms in one sequence are twice the corresponding terms in the other sequence. Explain informally why this is so.

Cues	Notes
What are numerical patterns?	Numerical patterns are sequences of numbers that follow a specific rule.
How do you generate terms using rules?	To generate terms, apply the given rule repeatedly starting from the initial number.
What is an ordered pair?	An ordered pair consists of two numbers that represent a point on a coordinate plane.
How do you graph ordered pairs?	Graph ordered pairs by plotting the points on the coordinate plane according to their coordinates.
What is the relationship between two patterns?	The relationship between two patterns can be observed by comparing corresponding terms and graphing the ordered pairs.

Summary

This standard involves generating numerical patterns using given rules, identifying relationships between corresponding terms, and graphing ordered pairs on a coordinate plane. Understanding these concepts is key to developing algebraic thinking.