



and connections with the

NCTM Standards

National Council for Teachers of Mathematics (NCTM) Standards	Coordinate Graphing	Dominoes	Growing Equations	Pattern	Pattern Blocks	The Unknowns	What's My Rule?	Who Am I?
Number and Operations								
Understand numbers, ways of representing numbers, relationships among numbers, and number systems		•	•	•	•	•	•	•
Understand meanings of operations and how they relate to one another		•	•	•	•	•	•	•
Compute fluently and make reasonable estimates		•	•	•	•	•	•	•
Algebra								
Understand patterns, relations, and functions		•	•	•			•	•
Represent and analyze mathematical situations and structures using algebraic symbols		•	•	•		•	•	•
Use mathematical models to represent and understand quantitative relationships		•	•	•	•	•	•	•
Geometry								
Analyze characteristics and properties of 2- and 3-dimensional geometric shapes and develop mathematical arguments about geometric relationships					•			
Specify locations and describe spatial relationships using coordinate geometry and other representational systems	•							



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Problem Solving								
Build new mathematical knowledge through problem solving	•	•	•	•	•	•	•	•
Reasoning and Proof								
Recognize reasoning and proof as fundamental aspects of mathematics	•	•	•	•	•	•	•	•
Communication								
Organize and consolidate their mathematical thinking through communication	•	•	•	•	•	•	•	•
Communicate their mathematical thinking coherently and clearly to peers, teachers, and others	•	•	•	•	•	•	•	•
Use the language of mathematics to express mathematical ideas precisely	•	•	•	•	•	•	•	•
Connections								
Recognize and use connections among mathematical ideas	•	•	•	•	•	•	•	•
Understand how mathematical ideas interconnect and build on one another to produce a coherent whole	•	•	•	•	•	•	•	•
Representation								
Create and use representations to organize, record, and communicate mathematical ideas	•	•	•	•	•	•	•	•