

Concepts and Skills	Applications	Discourse	Reasoning Skills	Effective Instructional Practices
Operations with Numbers	Patterns	Questioning	Critical Thinking	Explicit Instruction
Students apply rational, irrational, and complex numbers fluently and flexibly to solve a variety of problems.	Students use numerical and visual patterns to identify properties and formulas, and to make predictions.	Questions are posed to promote problem solving and reasoning and are answered by students.	Students explain and justify answers and processes.	New skills and content are introduced, modeled, and guided using explicit and structured instructional practices.
Ratio and Proportions	Functions	Interaction	Productive Struggle	Pacing
Students apply proportional reasoning across multiply domains and concepts.	Students compare and apply characteristics and properties of various functions.	Students engage in structured discussion and writing about their learning.	Challenging tasks are scaffolded to be just within reach, requiring reasoning and problem-solving.	Pacing is brisk to maintain high engagement as students process information.
Solving Equations and Inequalities	Statistics and Probability	Manage Discourse	Problem-solving Techniques	Active Engagement
Students apply properties of numbers and of equality fluently and flexibly to solve equations and inequalities.	Students apply statistics and probability to make inferences and predictions.	Student to student discourse is managed and summarized to maintain progress toward the learning objective.	A variety of problem-solving techniques are taught and applied to solve problems.	Students are actively engaged as they apply new concepts or skills.
Geometry	Mathematical Modeling	Vocabulary	Learning Through Inquiry	Differentiation
Students describe, compare and manipulate geometric objects.	Students use various mathematical models to create and analyze real-world scenarios.	Academic language and vocabulary are introduced and developed to ensure access to the content.	Inquiry processes are clearly defined, guided, and concluded while connecting back to the learning objective.	Instruction is differentiated to support student learning.

