

NPSD Middle & High School Curriculum

Department: Mathematics

Course: Math 7

Domain	Promise Standards & Essential Learning Targets
Probability	Students will be able to investigate chance processes and develop, use, and evaluate probability models. ELT A: I can develop a probability model by observing frequencies in experimental data. ELT B: I can use probability tables to generate a complete list of possible outcomes of compound events. (Theoretical Probability) ELT C: I can use probability trees to generate a complete list of possible outcomes of compound events. (Theoretical Probability) ELT D: I can evaluate the possible outcomes of probability models to calculate probabilities.
Integers	Students will be able to apply and extend previous understandings of all operations for integers. ELT A: I can apply all operations (Adding, Subtracting, Multiplying, and Dividing) for integers in real world situations. (Order of Operations) ELT B: I can extend all operations (Adding, Subtracting, Multiplying, and Dividing) for integers in real world situations.
Fractions & Decimals	Students will be able to apply and extend previous understandings of all operations for fractions and decimals. ELT A: I can apply previous understandings of all operations (Adding, Subtracting, Multiplying, and Dividing) for fractions in real world situations. ELT B: I can extend previous understandings of all operations (Adding, Subtracting, Multiplying, and Dividing) for fractions in real world situations. ELT C: I can apply previous understandings of all operations (Adding, Subtracting, Multiplying, and Dividing) for decimals in real world situations. ELT D: I can extend previous understandings of all operations (Adding, Subtracting, Multiplying, and Dividing) for decimals in real world situations.
Proportional Relationships	Students will be able to recognize and represent proportional relationships between quantities in multiple representations. ELT A: I can recognize proportional relationships between quantities represented in a table. ELT B: I can recognize proportional relationships between quantities represented in a graph. ELT C: I can recognize proportional relationships between quantities represented in a rule. ELT D: I can recognize proportional relationships between quantities represented in verbal descriptions. ELT E: I can represent proportional relationships between quantities by creating a table. ELT F: I can represent proportional relationships between quantities by creating a graph. ELT G: I can represent proportional relationships between quantities by creating a rule. ELT H: I can represent proportional relationships between quantities by creating verbal descriptions.
Expressions & Equations	Students will be able to solve multi-step real-life mathematical problems using algebraic expressions, equations, and inequalities. ELT A: I can solve multi-step real-life mathematical problems using algebraic expressions. (Combining like terms, zero pairs) ELT B: I can solve multi-step real-life mathematical problems using algebraic equations. ELT C: I can solve multi-step real-life mathematical problems using algebraic inequalities.

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Angle Relationships	Students will be able to draw, construct, and describe angle relationships. ELT A: I can draw triangles from three measures of angles or sides. ELT B: I can construct angle relationships when given specific conditions. ELT C: I can describe angle relationships using academic language (Complementary, Supplementary, Vertical, and Adjacent Angles.)
Area & Volume	Students will be able to solve real-life and mathematical problems involving area, surface area, and volume. ELT A: I can solve real-life and mathematical problems involving area. (Rectangles, parallelograms, triangles, trapezoids, and circles.) ELT B: I can solve real-life and mathematical problems involving surface area. ELT C: I can solve real-life and mathematical problems involving volume. (Prisms and Non-Prisms)