Any standard highlighted in yellow has been determined by our WCSD teachers, district and state experts as essential for students to master.

Strand: Apply and extend previous understandings of arithmetic to algebraic expressions. (6.EE.1-4)			
Strand: Reason about and solve one-variable equations and inequalities. (6.EE.5-8)			
Strand: Represent and analyze quantitative relationships between dependent and independent variables. (6.EE.9)			
Standard 6.EE.1: I can write and evaluate numerical expressions involving whole number exponents.			
Learning Targets • Understand the meaning of exponents and exponential notation. • Use manipulative to show square numbers • Use multiple representations that illustrate geometric dimension/collections.	**Academic Vocabulary & Notation** • base number, expressions, exponents, power, superscripted numbers, ∧ (carat)	**Question Stems** • Find the value of an expression using exponential notation. • What are the strengths/ weaknesses of using exponential notation?	**Possible Assessments** • District CFA Expressions/ Equations
Standard 6.EE.2: I can write, read, and evaluate expressions in which letters stand for numbers. I can evaluate expressions for specific values or variables.			
Learning Targets • Recognize that variables represent unknown quantities. • Understand that using standard formulas can show relationships with whole numbers. • Evaluate expressions at specific values of their variables. • Use order of operations	**Academic Vocabulary & Notation** • expression, equations, formula, order of operations, superscripted numbers, variable, ∧ (carat)	**Question Stems** • Draw a diagram of a triangle with the area of 48cm². Justify why the base and height are what they are (can use formulas) • Can you use different numbers? Why or why not?	**Possible Assessments** • District CFA Expressions/ Equations

Strand: Apply and extend previous understandings of arithmetic to algebraic expressions. (6.EE.1-4)

Strand: Reason about and solve one-variable equations and inequalities. (6.EE.5-8)

Strand: Represent and analyze quantitative relationships between dependent and independent variables. (6.EE.9)

Standard 6.EE.3 I can apply the properties of operations to generate equivalent expressions.

Learning Targets	Academic Vocabulary & Notation	Question Stems	Possible Assessments
• Apply the properties of operations with expressions involving variables to generate equivalent expressions. • Make connections between prior knowledge with numbers to variables.	• Associative Property of addition and multiplication, Commutative Property of addition and multiplication, Identity Property of addition and multiplication, Distributive Property of multiplication over addition/ subtraction, Identify element	• How did you solve the problem? • Explain the similarities and differences for the math properties.	• District CFA Expressions/ Equations

Standard 6.EE.4: I can identify when two expressions are equivalent.

Learning Targets	Academic Vocabulary & Notation	Question Stems	Possible Assessments
• Recognize equivalent expressions and substitute values to prove equivalency • Model equivalent expressions with manipulatives, diagrams, or story context • Use substitution to verify that both expressions are equivalent.	• equation, equivalent, expression, variable, =	• What mathematics were you investigating? • What questions arose as you worked? • A question I had was…..	• District CFA Expressions/ Equations

Strand: Apply and extend previous understandings of arithmetic to algebraic expressions. (6.EE.1-4)

Strand: Reason about and solve one-variable equations and inequalities. (6.EE.5-8)

Strand: Represent and analyze quantitative relationships between dependent and independent variables. (6.EE.9)

Standard 6.EE.5: I can understand solving an equation or inequality as a process of answering a question.

Learning Targets	Academic Vocabulary & Notation	Question Stems	Possible Assessments
• Understand the differences between equations and inequalities. • Know that inequalities represent a range of possible values rather than a single solution.	• equality, inequality, solution, substitution, <, >, ≤, ≥	• How else could you have….? • How are these the same? Different?	• District CFA Expressions/ Equations

Standard 6.EE.6: I can use variables to represent numbers and write expressions when solving a real-world or mathematical problem. I can understand that a variable can represent an unknown number or any number in a specified set.

Learning Targets	Academic Vocabulary & Notation	Question Stems	Possible Assessments
• Recognize real-world mathematical problems can be expressed using a variable to represent an unknown. • Write and solve an expression that represents a real-world problem using variables. • Use variables to represent numbers or sets of numbers when solving a problem.	• constant, coefficient, solution, <, >, ≤, ≥	• I did something like this before when…. • My strategy was successful because…	• District CFA Expressions/ Equations

Standard 6.EE.7: I can solve real-world and mathematical problems by writing and solving equations of the form x + p - q and px = q (non-negative rational numbers).

Learning Targets	Academic Vocabulary & Notation	Question Stems	Possible Assessments
• Solve one-step equations using all four operations with non-negative rational numbers.	• balance, equation	• What changes did you have to make to solve the problems? • My strategy was successful because…..	• District CFA Expressions/ Equations

Standard 6.EE.8: I can write an inequality of the form x > c or x < c to represent a condition in a real-world mathematical problem and recognize that inequalities have infinitely many solutions.

Strand: Apply and extend previous understandings of arithmetic to algebraic expressions. (6.EE.1-4)

Strand: Reason about and solve one-variable equations and inequalities. (6.EE.5-8)

Strand: Represent and analyze quantitative relationships between dependent and independent variables. (6.EE.9)

Learning Targets	Academic Vocabulary & Notation	Question Stems	Possible Assessments
• Represent inequalities on a number line. • Write an inequality that represents real-world mathematical problems containing a constraint or a condition (<, >) • Recognize that infinity refers to a set of numbers that has no end, but may not include all numbers. • Recognize that a variable can stand for an infinite number of solutions when used in inequalities.	• inequality, infinite, greater than, less than, >, <	•	• District CFA Expressions/ Equations

Standard 6.EE.9: I can use variables to represent two quantities in real-world problems and write an equation to express dependent and independent quantities.

Learning Targets	Academic Vocabulary & Notation	Question Stems	Possible Assessments
• Analyze relationship between the dependent and independent variables using graphs and tables. • Recognize that a change in the independent variable creates a change in the dependent variable.	• graph, table equation, variable, independent variable, dependent variable, equivalent	• How can a table or graph help show the relationship? • What are some other ways to show the relationship changes between x and y?	• District CFA Expressions/ Equations

Any standard highlighted in yellow has been determined by our WCSD teachers, district and state experts as essential for students to master.