

## Grade 6 - ENGLISH LANGUAGE ARTS

### READING COMPREHENSION

Reads with sufficient accuracy and fluency

Reads and comprehends literature at grade level

Reads and comprehends informational texts at grade level

Determines theme; summarizes without personal judgement

Describes plot and how the characters respond as a result

Determines the meaning of words and phrases in text

Determines main idea and explains key details

Analyzes the meaning of content specific words and phrases

### READING INTERPRETATION

Interprets figurative speech in context

Compares and contrasts texts in different forms or genres

Distinguishes fact from opinion citing evidence/support

Infers and supports using quotes from the text

### WRITING INFORMATIVE and NARRATIVE TEXTS

Provides summary of text free from personal judgement

Writes narrative pieces using effective technique

### WRITING PROCESS

Produces clear and coherent writing

Shows command of conventions of standard grammar usage

Shows command of capitalization, punctuation, spelling

### WRITING RESEARCH

Gathers relevant info from multiple print and digital sources

Uses reference materials to find meaning and pronunciation

### SPEAKING AND LISTENING

Presents research including multimedia and visual displays

Sequences ideas logically & uses descriptions, facts, details

Uses eye contact, adequate volume, and clear pronunciation

Adapts speech to a variety of contexts and tasks

## Grade 6 - MATHEMATICS

### NUMBER and QUANTITY

Finds the GCF and LCM of various sets of numbers

Multiplies multi-digit decimal numbers

Divides multi-digit decimal numbers

Subtracts mixed numbers with regrouping

Multiplies mixed numbers

Divides fractions and mixed numbers

Compares and orders rational numbers across various forms

Compares and orders integers

Graphs points in the coordinate plane

Solves proportions using cross products

Finds a percent of a number using proportions

Finds a percent of a number using equations

### ALGEBRA

Uses exponential notation

Uses the Order of Operations

Reads and writes expressions with variables

Evaluates expressions with variables

Writes and solves one-step equations with one variable

### GEOMETRY

Finds area and circumference of circles

Finds the area of irregular polygons with appropriate units

Finds volume of regular 3-D shapes with appropriate units

Finds surface area of regular 3-D shapes w/ appropriate units

### STATISTICS and PROBABILITY

Finds measures of mean, median, mode and range

Organizes data into box and whisker plots

Measures to the nearest  $\frac{1}{16}$  inch

Converts measurements within the metric system

Identifies dependent and independent events

## Grade 6 - ADVANCED MATHEMATICS

### NUMBER and QUANTITY

Multiplies and divides fractions and mixed numbers

Compares and orders integers

Performs all operations with positive and negative whole numbers

Graphs points in the coordinate plane

Finds absolute value of real numbers in all number systems

Solves proportions to find unit rates

Finds rates within different types of data

Finds a percent of a number using proportions and equations

Finds percent increase and decrease

### ALGEBRA

Uses the Order of Operations

Reads and writes expressions with variables

Writes and solves one-step equations with one variable

### GEOMETRY

Finds area and circumference of circles

Finds the area of irregular polygons with appropriate units

Finds volume of regular 3-D shapes with appropriate units

Finds surface area of regular 3-D shapes w/ appropriate units

### STATISTICS and PROBABILITY

Converts measurements within the metric system

Converts compound measurements within same system

Finds measures of mean, median, mode and range

Organizes data into box and whisker plots

Determines whether outcomes of an event are equally likely

Uses counting trees to find simple combinations

Describes dependent and independent events

## Grade 7 - ENGLISH LANGUAGE ARTS

### READING COMPREHENSION

Determines literary themes and summarizes objectively

Analyzes how elements of a story or drama interact

Demonstrates an understanding of figurative language

Reads and comprehends literature at grade level

Determines main idea and analyzes using supporting details

Provides an objective summary of informational text

Reads and comprehends informational texts at grade level

Finds meaning of unknown words using a variety of strategies

### READING INTERPRETATION

Infers and supports analysis of content using evidence

Analyzes how parts of a text fit the overall structure

Compares/contrasts fictional/historical views of time period

Analyzes the structure of paragraphs and key concepts

Determines an author's point of view or purpose in a text

Evaluates if arguments and claims in a text are sound

### WRITING INFORMATIVE and NARRATIVE TEXTS

Writes informative/explanatory texts to examine topic/idea

### WRITING PROCESS

Produces clear writing appropriate to purpose and audience

Shows command of conventions of standard grammar usage

Shows command of capitalization, punctuation, spelling

Acquires and accurately uses content specific words/phrases

### WRITING RESEARCH

Gathers information from multiple print and digital sources

Assesses sources and follows standard format for citation

Paraphrases information while avoiding plagiarism

### SPEAKING AND LISTENING

Presents info in focused and clear manner using details

Uses eye contact, adequate volume, and clear pronunciation

Adapts speech to a variety of contexts and tasks

## Grade 7 - MATHEMATICS

### NUMBER and QUANTITY

Performs addition with positive and negative numbers

Performs subtraction with positive and negative numbers

Performs multiplication with positive and negative numbers

Performs division with positive and negative numbers

Applies the properties of real numbers to solve problems

Finds absolute value of real numbers in all number systems

Solves proportions to find unit rates

Finds rates within different types of data

Finds simple interest using a formula

Finds percent increase and decrease

### ALGEBRA

Applies properties of operations to simplify expressions

Writes and solves multi-step equations with one variable

Writes and solves algebraic inequalities with one variable

### GEOMETRY

Uses proportions to solve problems involving scale drawings

Uses angle relationship properties to find unknown measures

Uses formulas to find surface area/volume of complex 3-D shapes

### STATISTICS and PROBABILITY

Interprets/analyzes data to draw conclusions/make predictions

Uses measures of central tendency to compare data

Determines whether outcomes of an event are equally likely

Uses counting trees to find simple combinations

Calculates/compares theoretical & experimental probabilities

Describes dependent and independent events

Converts compound measurements within same system

## Grade 7 - PRE-ALGEBRA

### NUMBER and QUANTITY

Performs all operations with positive and negative rational #s

Applies the properties of real numbers to simplify expressions

Classifies and identifies real numbers including rationals and irrationals

Expresses numbers in scientific notation

Performs operations with numbers in scientific notation

Simplifies square roots

Solves proportions

Finds simple interest using a formula

### ALGEBRA

Applies properties of operations to solve problems

Writes and solves multi-step equations with one variable

Writes and solves algebraic inequalities with one variable

Writes and solves multi-step equations with rational coefficients

### GEOMETRY

Uses proportions to solve problems involving indirect measure

Describes transformations in the coordinate plane

Uses properties of angle relationships to find unknown measures

Describes angle relationships in parallel lines cut by a transversal

Develops and uses the Pythagorean Theorem

Uses formulas to find surface area/volume of complex 3-D shapes

Applies formulas for cones, cylinders and spheres

### STATISTICS and PROBABILITY

Constructs and interprets data and organizes it into a scatter plot

Interprets and analyzes data to draw conclusions, make predictions

Uses measures of central tendency to compare data

Calculates simple combinations to solve probability problems

Calculates and compares theoretical and experimental probabilities

Describes dependent and independent events

## Grade 8 - ENGLISH LANGUAGE ARTS

### READING COMPREHENSION

- Determines literary themes and summarizes objectively
- Analyzes how dialogue/incidents in a story propel the action
- Demonstrates an understanding of figurative language
- Reads and comprehends literature at grade level
- Determines main idea and analyzes using supporting details
- Reads and comprehends informational texts at grade level
- Finds meaning of unknown words using a variety of strategies
- Analyzes impact of word choice on meaning and tone

### READING INTERPRETATION

- Cites evidence and draws inferences that supports analysis
- Compares/contrasts structure meaning, style of two texts
- Analyzes the structure of paragraphs and key concepts
- Determines an author's point of view or purpose in a text
- Evaluates if arguments and claims in a text are sound

### WRITING ARGUMENTS

- Writes arguments to support claims with reasons, evidence

### WRITING PROCESS

- Produces clear writing appropriate to purpose and audience
- Shows command of conventions of standard grammar usage
- Shows command of capitalization, punctuation, spelling
- Acquires and accurately uses content specific words/phrases

### WRITING RESEARCH

- Gathers information from multiple print and digital sources
- Assesses sources and follows standard format for citation
- Paraphrases information while avoiding plagiarism

### SPEAKING AND LISTENING

- Presents info in focused and clear manner using details
- Uses eye contact, adequate volume, and clear pronunciation
- Presents research including multimedia and visual displays
- Adapts speech to a variety of contexts and tasks

## Grade 8 - MATHEMATICS

### NUMBER and QUANTITY

Identifies rational and irrational numbers

Classifies real numbers

Estimates approximations for irrational numbers

### ALGEBRA

Expresses numbers in scientific notation

Performs operations with numbers in scientific notation

Applies the laws of exponents

Simplifies square roots

Finds the slope and y-intercept of a line

Writes and graphs equations in the form of  $y = mx + b$

Translates verbal models into algebraic expressions

Writes/solves multi-step equations with rational coefficients

Identifies the number of solutions to a linear function

### FUNCTIONS

Identifies a linear function

Identifies a non-linear function

Writes a linear function for pairs of data

### GEOMETRY

Describes transformations in the coordinate plane

Uses angle relationships to find unknown angles

Describes angles when parallel lines are cut by a transversal

Develops and uses the Pythagorean Theorem

Applies formulas for cones, cylinders and spheres

### STATISTICS and PROBABILITY

Constructs/interprets data and organizes it into a scatter plot

Identifies correlations in data

Finds and interprets the line of best fit for a set of data

## Grade 8 - ALGEBRA 1

### NUMBER and QUANTITY

Translates between radical and exponential notation

Converts units using dimensional analysis

### ALGEBRA

Identifies terms and coefficients in an expression

Expresses equations in point-slope form and standard form

Applies the laws of exponents

Multiplies binomials

Factors difference of 2 squares, perfect square trinomials, other quadratics

Solves literal equations for indicated variable

Identifies the properties used to solve equations

Writes and graphs the equation of a line in slope-intercept form

Solves quadratic equations by factoring or completing the square

Solves quadratic equations using the quadratic formula

Uses various methods to solve systems of linear equations

Solves a system of linear inequalities graphically

### FUNCTIONS

Finds the domain and range of a relation

Identifies the number of solutions to a linear function

Identifies and classifies number of solutions to quadratic function

Identifies vertex, line of symmetry, max or min of quadratic

Writes a linear function for pairs of data

Identifies a linear and non-linear functions

Uses equation for exponential growth/decay to solve problems

### STATISTICS and PROBABILITY

Translates from one data representation to another

Finds and interprets the line of best fit for a set of data

Identifies correlations in data