



|                | Chinooks & Falcons  | Eagles   | Liberty   |
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| <b>Writing</b> | <p><b>Opinion Pieces</b><br/>-provide reasons that are supported by facts and details<br/>-use linking words and phrases<br/>-conclusion related to opinion</p> <p><b>Explanatory/ Informative Texts</b><br/>-introduce topic and group related information into sections with headings, include illustrations<br/>-include facts, definitions, concrete details, and quotations<br/>-use linking words and phrases<br/>-conclusion section related to explanation presented</p> <p><b>Narratives</b><br/>-introduce narrator and/or characters<br/>-use dialogue and description of actions<br/>-use a variety of transitional words and phrases to manage sequence of events<br/>-use sensory details to convey experiences<br/>-conclusion</p> | <p><b>Opinion Pieces</b><br/>-provide logically groups that are supported by facts and details<br/>-link opinions and reasons using words, phrases, and clauses (e.g., consequently, specifically)<br/>-conclusion related to opinion</p> <p><b>Explanatory/ Informative Texts</b><br/>-introduce topic, including general observation and focus, and group related information into sections with headings, include illustrations<br/>-include facts, definitions, concrete details, and quotations<br/>-link ideas within and across categories of information<br/>-conclusion section related to explanation presented</p> <p><b>Narratives</b><br/>-introduce narrator and/or characters<br/>-use dialogue and description of actions, show the responses of characters to situations<br/>-use a variety of transitional words and phrases to manage sequence of events<br/>-use sensory details to convey experiences<br/>-conclusion</p> | <p><b>Argument</b><br/>-introduce claims<br/>-support claims with clear reasons and evidence, using credible sources<br/>-clarify relationships among claims and reasons<br/>-conclusion section</p> <p><b>Explanatory/ Informative Texts</b><br/>-introduce topic, using strategies like compare/contrast or cause/effect, and group related information into sections with headings, include illustrations<br/>-include facts, definitions, concrete details, and quotations<br/>-use transitions to clarify ideas<br/>-conclusion section related to explanation presented</p> <p><b>Narratives</b><br/>-introduce narrator and/or characters<br/>-use dialogue and description of actions, show the responses of characters to situations, signal shifts from one time frame or setting to another<br/>-use a variety of transitional words and phrases to manage sequence of events<br/>-use sensory details to convey experiences<br/>-conclusion</p> |



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|  | <p><b>Research Projects</b><br/>-based on focused questions<br/>-investigate different aspects of a topic</p> | <p><b>Research Projects</b><br/>-based on focused questions<br/>-investigate different aspects of a topic<br/>-use several sources</p> | <p><b>Research Projects</b><br/>-based on focused questions<br/>-investigate different aspects of a topic<br/>-use several sources</p> |
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| <b>Language</b>    | <ul style="list-style-type: none"><li>-relative pronouns (who, whose, whom) and relative adverbs (where, when, why)</li><li>-progressive verb tenses</li><li>-auxiliaries (can, may, must)</li><li>-prepositional phrases</li><li>-complete sentences, recognizing fragments and run-ons</li><li>-frequently confused words (to, too, there, their)</li></ul> | <ul style="list-style-type: none"><li>-conjunctions, preposition, and interjections and their function in particular sentences</li><li>-perfect verb tenses (I had walked.)</li><li>-use verb tense to convey various times, sequences, states, and conditions</li><li>-recognize shifts in verb tense</li><li>-correlative conjunctions</li></ul> | <ul style="list-style-type: none"><li>-pronouns in the proper case (subjective, objective, possessive)</li><li>-intensive pronouns (myself, ourselves)</li><li>-editing own and others work</li></ul>  |
| <b>Conventions</b> | <ul style="list-style-type: none"><li>-capitalization</li><li>-commas in addresses</li><li>-commas and quotation in dialogue</li><li>-possessives</li><li>-suffixes</li></ul>   | <ul style="list-style-type: none"><li>-commas and quotation marks to direct speech and quotations in text</li><li>-comma before coordinating conjunction in a compound sentence</li></ul>  | <ul style="list-style-type: none"><li>-punctuation to separate items in a series</li><li>-comma to separate an introductory element from the rest of the sentence</li><li>-comma to set off the words yes and no, to set off a tag question, and to indicate direct address</li><li>-underlining, quotation marks, or italics for titles</li></ul> |



|  | Chinooks & Falcons  | Eagles   | Liberty II   |
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| <b>Ratios &amp; Proportional Relationships</b> | <b>Ratios, Proportions, &amp; Percents</b> <ul style="list-style-type: none"><li>-determine the ratio</li><li>-equivalent ratios</li><li>-proportions</li><li>-percent of a number</li><li>-compare percentages</li></ul> | <b>Ratios, Proportions, &amp; Percents</b> <ul style="list-style-type: none"><li>-write a ratio to describe objects in a picture</li><li>-ratio tables</li><li>-equivalent ratios</li><li>-proportions</li><li>-unit rates</li><li>-scale drawings</li><li>-convert between percents, fractions, and decimals</li><li>-compare percents and fractions</li><li>-percents of numbers and money amounts</li><li>-find what percent one number is of another</li></ul> | <b>Ratios &amp; Proportions</b> <ul style="list-style-type: none"><li>-understand ratios</li><li>-equivalent ratios</li><li>-compare ratios</li><li>-unit rates</li><li>-do the ratios form a proportion</li><li>-solve proportions</li><li>-estimate population size using proportion</li><li>-rate of change</li><li>-constant rate of change</li><li>-scale drawings and scale factor</li></ul> <b>Proportional Relationships</b> <ul style="list-style-type: none"><li>-identify proportional relationships</li><li>-find the constant of variations</li><li>-graph a proportional relationships</li><li>-write an equation for proportional relationships</li></ul> <b>Percents</b> <ul style="list-style-type: none"><li>-convert between percents, fractions, and decimals</li><li>-compare percents to fractions and decimals</li><li>-find what percent one number is of another</li><li>-estimate percent of numbers</li><li>-percents of numbers and money amounts</li><li>-percent of change</li></ul> |



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| <b>The Number System</b> | <p><b>Number Sense</b></p> <ul style="list-style-type: none"> <li>- count within 1000</li> <li>- skip-count by 2s, 3s, 4s, 5s, 6s, 7s, 8s, 9s, and 10s</li> <li>- read and write numbers to 1000 using base-ten numerals, number names, and expanded form</li> <li>-Roman Numerals: I-X, L, C, D, M</li> </ul> <p><b>Place Value</b></p> <ul style="list-style-type: none"> <li>-convert between place values</li> <li>-compare numbers up to billions</li> <li>-word names for numbers</li> <li>-rounding</li> <li>-understanding integers</li> <li>-put integers in order</li> <li>-simple scientific notation</li> </ul> <p><b>Addition &amp; Subtraction</b></p> <ul style="list-style-type: none"> <li>-add and subtract whole numbers up to billions</li> <li>-add and subtract money amounts</li> <li>-choose numbers with a particular sum or difference</li> <li>-properties of addition</li> <li>-inequalities with addition and subtraction on a number line</li> <li>-estimate sums and differences</li> <li>-add decimals</li> <li>-subtract decimals</li> </ul> <p><b>Multiplication</b></p> <ul style="list-style-type: none"> <li>-multiply 1-digit numbers</li> <li>-multiplication patterns over increasing place values</li> <li>-multiply numbers ending in zeroes</li> <li>-properties of multiplication</li> <li>-choose numbers with a particular product</li> </ul> | <p><b>Number Theory</b></p> <ul style="list-style-type: none"> <li>-convert between standard and scientific notation</li> <li>-compare numbers written in scientific notation</li> <li>-prime and composite numbers</li> <li>-identify factors</li> <li>-prime factorization</li> <li>-greatest common factor</li> <li>-least common multiple</li> </ul> <p><b>Whole Numbers</b></p> <ul style="list-style-type: none"> <li>-place values in whole numbers</li> <li>-word names for numbers</li> <li>-Roman numerals</li> </ul> <p><b>Decimals</b></p> <ul style="list-style-type: none"> <li>-decimals place values</li> <li>-word names for decimal numbers</li> <li>-convert decimals to mixed numbers</li> <li>-put decimal numbers in order</li> <li>-inequalities with decimals</li> <li>-round decimals</li> <li>-round whole numbers and decimals</li> <li>-decimals number lines</li> <li>-multiply decimals</li> <li>-divide decimals by whole numbers</li> <li>-add and subtract decimals</li> </ul> <p><b>Integers</b></p> <ul style="list-style-type: none"> <li>-understand integers</li> <li>-absolute value</li> <li>-number lines with integers</li> <li>-compare and order integers</li> <li>-add and subtract integers</li> </ul> <p><b>Rational Numbers</b></p> <ul style="list-style-type: none"> <li>-compare rational numbers</li> <li>-put rational numbers in order</li> </ul> | <p><b>Number Theory</b></p> <ul style="list-style-type: none"> <li>-factors</li> <li>-divisibility rules</li> <li>-prime or composite</li> <li>-prime factorization</li> <li>-greatest common factor</li> <li>-least common multiple</li> <li>-classify numbers</li> </ul> <p><b>Integers</b></p> <ul style="list-style-type: none"> <li>-understand integers</li> <li>-integers on number lines</li> <li>-absolute value and opposite integers</li> <li>-compare and order integers</li> <li>-integer inequalities with absolute values</li> <li>-add/subtract integers</li> <li>-multiply/divide integers</li> <li>-simplify expressions involving integers</li> <li>-evaluate variable expressions with integers and absolute value</li> </ul> <p><b>Exponents and Square Roots</b></p> <ul style="list-style-type: none"> <li>-evaluate exponents</li> <li>-solve for the variable</li> <li>-exponents with decimal and fractional bases</li> <li>-negative exponents</li> <li>-simplify expressions involving exponents</li> <li>-multiplication with exponents</li> <li>-division with exponents</li> <li>-power rule</li> <li>-square root of perfect squares</li> <li>-estimate square roots</li> <li>-positive and negative square roots</li> <li>-cube roots of perfect cubes</li> </ul> |



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|  | <ul style="list-style-type: none"><li>-estimate products</li><li>-multiply 2-digit numbers by 2-digit numbers</li><li>-multiply 2-digit numbers by 3-digit numbers</li><li>-multiply three or more numbers up to 2-digits each</li><li>-multiply three numbers up to 3 digits each</li><li>-multiplication input/output tables</li><li>-input/output tables: find the rule</li></ul> <p><b>Division</b></p> <ul style="list-style-type: none"><li>-facts to 12</li><li>-divide multi-digit numbers by 1-digit</li><li>-divide by 1-digit numbers with remainders</li><li>-estimate quotient</li><li>-division patterns over increasing place values</li><li>-divide numbers ending in zeroes</li><li>-divide 2-digit and 3-digit numbers by 2-digits</li><li>-divide larger numbers by 2-digits</li><li>-divide money amounts</li><li>-choose numbers with a particular quotient</li></ul> <p><b>Number Theory</b></p> <ul style="list-style-type: none"><li>-prime and composite numbers</li><li>-prime factorization</li><li>-prime factorization with exponents</li><li>-divisibility rules</li><li>-greatest common factor</li><li>-least common multiple</li></ul> | <ul style="list-style-type: none"><li>-absolute value of rational numbers</li><li>-add and subtract rational numbers</li><li>-multiply and divide rational numbers</li></ul> <p><b>Exponents &amp; Square Roots</b></p> <ul style="list-style-type: none"><li>-write multiplication expressions using exponents</li><li>-evaluate exponents</li><li>-exponents with decimal bases</li><li>-exponents with fractional bases</li><li>-understanding negative exponents</li><li>-square roots of perfect squares</li><li>-estimate square roots</li></ul> <p><b>Multiplication &amp; Division</b></p> <ul style="list-style-type: none"><li>-multiply multi-digit whole numbers with three or more digits</li><li>-properties of multiplication</li><li>-integer multiplication rules</li><li>-divisibility rules</li><li>-division patterns with zeros</li><li>-divide whole numbers: 2-digit divisors</li><li>-divide whole numbers: 3-digit divisors</li><li>-integer division rules</li></ul> | <p><b>Scientific Notation</b></p> <ul style="list-style-type: none"><li>-convert between standard and scientific notation</li><li>-compare numbers written in scientific notation</li><li>-multiply numbers written in scientific notation</li><li>-divide numbers written in scientific notation</li></ul> |
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| <b>Numbers &amp; Operations: Fractions</b> | <p><b>Fractions &amp; Mixed Numbers</b></p> <ul style="list-style-type: none"> <li>-equivalent fractions</li> <li>-reduce fractions to lowest terms</li> <li>-convert between improper fractions and mixed numbers</li> <li>-least common denominator</li> <li>-graph and compare fractions on number lines</li> <li>-compare fractions and mixed numbers</li> <li>-put fractions in order</li> <li>-round mixed numbers</li> <li>-reciprocals</li> </ul> <p><b>Add &amp; Subtract Fractions</b></p> <ul style="list-style-type: none"> <li>-decompose fractions multiple ways</li> <li>-add and subtract fractions with like denominators using number lines</li> <li>-add and subtract mixed numbers with like denominators</li> <li>-add and subtract fractions with unlike denominators</li> <li>-add up to 4 fractions with denominators of 10 and 100</li> <li>-add 3 or more fractions with unlike denominators</li> <li>-compare sums and differences of fractions</li> <li>-add/subtract mixed numbers with unlike denominators</li> <li>-add/subtract fraction in recipes</li> </ul> <p><b>Multiply Fractions</b></p> <ul style="list-style-type: none"> <li>-multiply fractions by whole numbers</li> <li>-multiply two fractions</li> <li>-multiply three or more fractions</li> <li>-multiply a mixed number by a whole number</li> <li>-multiply two mixed numbers</li> </ul> <p><b>Divide Fractions</b></p> | <p><b>Fractions &amp; Mixed Numbers</b></p> <ul style="list-style-type: none"> <li>- equivalent fractions</li> <li>-simplify fractions</li> <li>-least common denominator</li> <li>-compare fractions with like and unlike denominators</li> <li>-convert between improper fractions and mixed numbers</li> <li>-convert between decimals and fractions or mixed numbers</li> <li>-put a mix a decimals, fractions, and mixed numbers in order</li> </ul> <p><b>Add &amp; Subtract Fractions</b></p> <ul style="list-style-type: none"> <li>-add/subtract fractions with like denominators</li> <li>-add/subtract fractions with unlike denominators</li> <li>-inequalities with addition and subtraction of like and unlike fractions mixed numbers</li> <li>-maps with fractional distances</li> </ul> <p><b>Multiply Fractions</b></p> <ul style="list-style-type: none"> <li>-multiply fractions of whole numbers</li> <li>-estimate products of fractions and whole numbers</li> <li>-multiply two fractions</li> <li>-multiply three or more fractions and whole numbers</li> <li>-multiply mixed numbers and whole numbers</li> <li>-multiply three or more mixed numbers, fractions, and/or whole numbers</li> </ul> <p><b>Divide Fractions</b></p> <ul style="list-style-type: none"> <li>-reciprocals</li> <li>-divide fractions by whole numbers</li> <li>-estimate quotients</li> <li>-divide fractions with mixed numbers</li> <li>-simplify expressions involving fractions</li> </ul> | <p><b>Fractions &amp; Mixed Numbers</b></p> <ul style="list-style-type: none"> <li>- equivalent fractions</li> <li>-simplify fractions</li> <li>-least common denominator</li> <li>-compare and order fractions</li> <li>-convert between mixed numbers and improper fractions</li> <li>-round mixed numbers</li> </ul> <p><b>Add &amp; Subtract Fractions</b></p> <ul style="list-style-type: none"> <li>-add/subtract fractions</li> <li>-add/subtract mixed numbers</li> <li>-inequalities with addition and subtraction of fractions and mixed numbers</li> <li>-estimate sums of differences of mixed numbers</li> <li>-multiply fractions</li> <li>-divide fractions</li> <li>-maps with fractional distances</li> </ul> |



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|  | <ul style="list-style-type: none"><li>-divide fractions by whole numbers</li><li>-divide whole numbers by fractions</li><li>-divide two fractions</li><li>-divide fractions by mixed numbers</li></ul> <p><b>Decimals</b></p> <ul style="list-style-type: none"><li>-understand decimals expressed in words</li><li>-place values in decimals</li><li>-convert decimals between standard and expanded form</li><li>-equivalent decimals</li><li>-decimals lines</li><li>-compare decimals on number lines</li><li>-order decimals</li><li>-convert fractions to decimals</li><li>-convert decimals to fractions</li><li>-convert decimals between standard and expanded form using fractions</li><li>-compare decimals and fractions on number lines</li><li>-repeating decimals</li><li>-put assorted decimals, fractions, and mixed numbers in order</li><li>-add/subtract decimals</li><li>-estimate products of decimals</li><li>-multiply decimals by a power of ten</li><li>-multiply a decimal by a one-digit number</li><li>-multiply money amounts</li><li>-multiply three or more numbers, one of which is a decimal</li><li>-multiply two decimals</li><li>-divide by powers of ten</li></ul> |  |  |
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| <b>Measurement &amp; Data</b> | <p><b>Measurement</b></p> <ul style="list-style-type: none"> <li>-choose appropriate customary unit of measurement</li> <li>-compare and convert customary units of length, weight, and volume</li> <li>-choose appropriate metric unit of measurement</li> <li>-compare and convert metric units of length, weight, and volume</li> <li>-compare customary units by multiplying</li> <li>-convert customary units involving fractions</li> <li>-convert mixed customary units</li> <li>-add and subtract customary units</li> <li>-convert between customary and metric units</li> <li>-temperature: Celsius and Fahrenheit</li> </ul> <p><b>Consumer Math</b></p> <ul style="list-style-type: none"> <li>-price lists</li> <li>-unit prices</li> <li>-sale price</li> </ul> <p><b>Time</b></p> <ul style="list-style-type: none"> <li>-convert time units</li> <li>-add and subtract mixed time units</li> <li>-time zones</li> <li>-elapsed time</li> <li>-find start and end times</li> <li>-schedules and time lines</li> <li>-time patters</li> </ul> <p><b>Data &amp; Graphs</b></p> <ul style="list-style-type: none"> <li>-read a table</li> <li>-interpret/create line graphs</li> <li>-interpret/create bar graphs</li> <li>-interpret/create pictographs</li> <li>-interpret/create histograms</li> <li>-interpret/create line plots</li> </ul> | <p><b>Measurement</b></p> <ul style="list-style-type: none"> <li>-estimate customary measurements</li> <li>-convert and compare customary measurements</li> <li>-convert, compare, add, and subtract mixed customary units</li> <li>-multiply and divide mixed customary units</li> <li>-convert and compare metric units</li> <li>-convert between customary and metric units</li> <li>-temperatures above and below zero</li> <li>-convert between Celsius and Fahrenheit</li> </ul> <p><b>Data &amp; Graphs</b></p> <ul style="list-style-type: none"> <li>-interpret/create pictographs</li> <li>-stem-and-leaf plots</li> <li>-interpret/create line plots</li> <li>-create frequency tables</li> <li>-interpret/create bar graphs</li> <li>-create frequency tables</li> <li>-interpret / create double bar graphs</li> <li>-create histograms</li> <li>-interpret/create double line graphs</li> <li>-interpret box-and-whisker plots</li> <li>-interpret/create circle graphs</li> <li>-interpret/create scatter plots</li> <li>-choose the best type of graph</li> </ul> <p><b>Time</b></p> <ul style="list-style-type: none"> <li>-elapsed time</li> <li>-time units</li> <li>-find start and end times</li> </ul> <p><b>Consumer Math</b></p> <ul style="list-style-type: none"> <li>-which is the better coupon?</li> <li>-unit prices: which is the better buy?</li> <li>-unit prices with fractions and decimals</li> <li>-unit prices with customary unit conversions</li> <li>-sale prices</li> <li>-sale prices: find the original price</li> </ul> | <p><b>Measurement</b></p> <ul style="list-style-type: none"> <li>-compare and convert customary units</li> <li>-compare and convert metric units</li> <li>-convert between customary and metric systems</li> <li>-precision</li> <li>-convert between Celsius and Fahrenheit temperatures</li> </ul> <p><b>Data &amp; Graphs</b></p> <ul style="list-style-type: none"> <li>-interpret/create tables</li> <li>-interpret/create stem-and-leaf plots</li> <li>-interpret/create line plots</li> <li>-create frequency tables</li> <li>-interpret/create bar graphs</li> <li>-create frequency tables</li> <li>-interpret / create double bar graphs</li> <li>-create histograms</li> <li>-interpret/create double line graphs</li> <li>-interpret box-and-whisker plots</li> <li>-interpret/create circle graphs</li> <li>-interpret/create scatter plots</li> <li>-choose the best type of graph</li> </ul> <p><b>Consumer Math</b></p> <ul style="list-style-type: none"> <li>-add, subtract, multiply, and divide money amounts</li> <li>-price lists</li> <li>-unit prices</li> <li>-percents of a number: tax, discount, and more</li> <li>-sale price: find the original price</li> <li>-estimate tips</li> <li>-simple interest</li> <li>-compound interest</li> </ul> <p><b>Statistics</b></p> <ul style="list-style-type: none"> <li>-calculate mean, median, mode, and range</li> <li>-interpret charts to find mean, median, mode, and range</li> <li>-changes in mean, median, mode, and range</li> </ul> |



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|  | <ul style="list-style-type: none"><li>-frequency charts</li><li>-stem-and-leaf plots</li><li>-circle graphs</li><li>-choose the best type of graph</li></ul> | <p>-percents- calculate tax, tip, mark-up, and more</p> <p><b>Statistics</b></p> <ul style="list-style-type: none"><li>-calculate mean, median, mode, and range</li><li>-interpret charts to find mean, median, mode, and range</li></ul> <p>-identify representative, random, and biased samples</p> <p><b>Probability</b></p> <ul style="list-style-type: none"><li>-combinations</li><li>-probability of one event</li><li>-make predictions</li><li>-probability of opposite, mutually exclusive, and overlapping events</li><li>-compound events</li><li>-probability of dependent and independent events</li><li>-factorials</li><li>-permutations</li></ul> | <p>-quartiles</p> <p>-identify representative, random, and biased samples</p> <p><b>Probability</b></p> <ul style="list-style-type: none"><li>-probability of simple events</li><li>-probability of opposite, mutually exclusive, and overlapping events</li><li>-experimental probability</li><li>-make predictions</li><li>-compound events: find the number of outcomes</li><li>-identify independent and dependent events</li><li>-probability of independent and dependent events</li><li>-factorials</li><li>-permutations</li><li>-counting principle</li><li>-combination and permutation notation</li></ul> |
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|                 | Chinooks & Falcons   | Eagles   | Liberty  |
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| <b>Geometry</b> | <p><b>Geometry</b></p> <ul style="list-style-type: none"> <li>- identify 2-dimensional and 3-dimensional shapes</li> <li>- types of triangles</li> <li>- open and closed shapes and qualities of polygons</li> <li>- regular and irregular polygons</li> <li>- number of sides in polygons</li> <li>- which figure is being described?</li> <li>- classify quadrilaterals</li> <li>- reflection, rotation, and translation</li> <li>- similar and congruent</li> <li>- nets of 3-dimensional figures</li> <li>- types of angles</li> <li>- measure angles with protractors</li> <li>- parts of a circle</li> <li>- perimeter</li> <li>- area of squares and rectangles</li> <li>- area of triangles</li> <li>- area of parallelograms and trapezoids</li> <li>- area of compound figures</li> <li>- area between two rectangles</li> <li>- area of perimeter and irregular figures</li> <li>- volume of rectangular prisms made with unit cubes</li> <li>- volume of irregular figures made with unit cubes</li> <li>- volume of cubes</li> <li>- surface area</li> <li>- three-dimensional figures viewed from different perspectives</li> <li>- lines of symmetry</li> <li>- rotational symmetry</li> <li>- lines, line segments, and rays</li> <li>- parallel, perpendicular, intersecting lines</li> <li>- radius, diameter, circumference, and area of a circle</li> <li>- find the unknown angle in triangles</li> </ul> | <p><b>Geometry</b></p> <ul style="list-style-type: none"> <li>- lines, line segments, and rays</li> <li>- estimate angle measurement</li> <li>- name angles</li> <li>- complementary and supplementary angles</li> <li>- transversal of parallel lines</li> <li>- triangle review</li> <li>- classify quadrilaterals</li> <li>- find missing angle length in triangles and quadrilaterals</li> <li>- sums of angles in polygons</li> <li>- parts of a circle</li> <li>- central angles of circles</li> <li>- similar and congruent figures</li> <li>- find side length of similar figures</li> <li>- reflection, rotation, and translation</li> <li>- translation, reflection, rotation: graph the image</li> <li>- symmetry</li> <li>- find lengths and measures of bisected lines and angles</li> <li>- area of compound figures</li> <li>- area between two rectangles</li> <li>- circles: calculate area, circumference, radius, and diameter</li> <li>- identify polyhedra and count faces, edges, and vertices</li> <li>- front, side, and top view</li> <li>- nets of 3-dimensional figures</li> <li>- volume of cubes and rectangular prisms</li> <li>- surface area of cubes and rectangular prisms</li> <li>- volume and surface area of triangular prisms</li> <li>- volume and surface area of cylinders</li> <li>- semicircles: calculate area, perimeter, radius, and diameter</li> <li>- quarter circle: calculate area, perimeter, radius, and diameter</li> </ul> | <p><b>Geometry</b></p> <ul style="list-style-type: none"> <li>- identify and measure complementary, supplementary, vertical, adjacent, and congruent angles</li> <li>- transversal of parallel lines</li> <li>- classify triangles</li> <li>- classify quadrilaterals</li> <li>- find missing angles of quadrilaterals</li> <li>- identify and classify polygons</li> <li>- interior angles of polygons</li> <li>- similar and congruent figures</li> <li>- find side length of similar and congruent figures</li> <li>- congruent triangles: SSS, SAS, and ASA</li> <li>- perimeter</li> <li>- area</li> <li>- parts of a circle</li> <li>- circles, semicircles, and quarter circles</li> <li>- front, side, top view</li> <li>- area between two rectangles</li> <li>- identify polyhedra and count faces, edges, and vertices</li> <li>- front, side, and top view</li> <li>- nets of 3-dimensional figures</li> <li>- volume of cubes and rectangular prisms</li> <li>- surface area of prisms, cylinders, pyramids, and cones</li> <li>- volume of prisms, cylinders, pyramids, and cones</li> <li>- volume and surface area of similar solids</li> <li>- perimeter, area, and volume: changes in scale</li> </ul> <p><b>Transformations</b></p> <ul style="list-style-type: none"> <li>- identify reflections, rotations, and translations</li> <li>- graph images and find coordinates</li> <li>- symmetry</li> </ul> <p><b>Pythagorean Theorem</b></p> <ul style="list-style-type: none"> <li>- find the length of the hypotenuse</li> <li>- find the missing length</li> <li>- converse of Pythagorean theorem: is it a right triangle?</li> </ul> |



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| <b>Algebra</b> | <p><b>Variables</b></p> <ul style="list-style-type: none"> <li>-simplify expressions using order of operations and parentheses</li> <li>-write/evaluate variable expressions</li> <li>-write equations to represent word problems</li> <li>-function tables</li> <li>-convert graphs to input/output tables</li> <li>-write/graph linear functions</li> </ul> <p><b>Coordinate Graphs</b></p> <ul style="list-style-type: none"> <li>-coordinate graphs with decimals and negative numbers</li> <li>-graph points on a coordinate plane</li> <li>-quadrants</li> </ul> <p><b>Probability &amp; Statistics</b></p> <ul style="list-style-type: none"> <li>-calculate mean, median, mode, and range</li> <li>-interpret charts</li> <li>-calculate probability</li> <li>-make predictions</li> </ul> | <p><b>Variable Expressions</b></p> <ul style="list-style-type: none"> <li>-write variable expressions to represent word problems</li> <li>-evaluate variable expressions with whole numbers</li> <li>-evaluate variable expressions involving decimals, fractions, and mixed numbers</li> <li>-does <math>x</math> satisfy the equation?</li> <li>-solve one-step equations with whole numbers, decimals, fractions, and mixed numbers</li> <li>-evaluate multi-variable expressions</li> <li>-solve two-step equations</li> <li>-does <math>(x,y)</math> satisfy an equation?</li> <li>-identify terms, coefficients, and monomials</li> <li>-add and subtract like terms</li> <li>-simplify variable expressions using properties</li> <li>-distributive property</li> <li>-solve equations with like terms</li> <li>-half-life and population doubling</li> <li>-inequalities on number lines</li> <li>-solve one-step linear inequalities</li> </ul> <p><b>Coordinate Graph</b></p> <ul style="list-style-type: none"> <li>-graph points on a coordinate plane</li> <li>-coordinate graphs as maps</li> <li>-distance between two points</li> <li>-find points on a function graph</li> <li>-write the linear function shown in a graph</li> <li>-graph linear functions</li> <li>-relative coordinates</li> <li>-identify linear and nonlinear functions</li> </ul> | <p><b>Variable Expressions</b></p> <ul style="list-style-type: none"> <li>-write variable expressions to represent diagrams</li> <li>-identify terms and coefficients</li> <li>-evaluate single-variable expressions</li> <li>-evaluate multi-variable expressions</li> <li>-add/subtract like terms</li> <li>-simplify variable expressions</li> </ul> <p><b>Single-variable Equations</b></p> <ul style="list-style-type: none"> <li>-does <math>x</math> satisfy the equation?</li> <li>-model and solve equations using algebra tiles</li> <li>-solve one-step linear equations</li> <li>-solve two-step linear equations</li> <li>-solve multi-step equations</li> <li>-identities and equations with no solutions</li> </ul> <p><b>Inequalities</b></p> <ul style="list-style-type: none"> <li>-on number lines</li> <li>-solutions to variable inequalities</li> <li>-graph inequalities on number lines</li> <li>-solve one-step linear inequalities</li> <li>-graph solutions to one-step linear inequalities</li> <li>-solve two-step linear inequalities</li> <li>-graph solutions to two-step linear inequalities</li> <li>-solve advanced linear inequalities</li> <li>-graph solutions to advanced linear equations</li> </ul> <p><b>Linear Functions</b></p> <ul style="list-style-type: none"> <li>-does <math>(x,y)</math> satisfy the equation?</li> <li>-evaluate a function</li> <li>-complete a function table</li> <li>-write a rule for a function table</li> <li>-find points on a function graph</li> <li>-graph a line from an equation</li> <li>-linear function word problems</li> <li>-find the slope of a graph</li> <li>-find the slope from two points</li> <li>-find the slope from an equation</li> <li>-graph a line using slope</li> <li>-slopes of parallel and perpendicular lines</li> </ul> |



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|  |  |  | <p><b>Nonlinear Functions</b></p> <ul style="list-style-type: none"><li>-identify linear and nonlinear functions</li><li>-Does <math>(x,y)</math> satisfy a nonlinear equation?</li><li>-evaluate a nonlinear function</li></ul> <p><b>Coordinate Graphs</b></p> <ul style="list-style-type: none"><li>-points on coordinate graphs</li><li>-quadrants and axes</li><li>-coordinate graphs as maps</li><li>-distance between two points</li></ul> <p><b>System of Linear Equations</b></p> <ul style="list-style-type: none"><li>-is <math>(x,y)</math> a solution to the system of equations?</li><li>-solve a system of equations by graphing</li><li>-find the number of solutions to a system of equations by graphing</li><li>-classify a system of equations</li><li>-solve a system of equations</li><li>-solve a system of equations using elimination</li></ul> <p><b>Monomials and Polynomials</b></p> <ul style="list-style-type: none"><li>-identify monomials</li><li>-model polynomials with algebra tiles</li><li>-add/subtract polynomials</li><li>-multiply/divide polynomials</li><li>-powers of monomials</li><li>-square and cube roots of monomials</li><li>-multiply polynomials using algebra tiles</li><li>-multiply polynomials</li><li>-multiply polynomials to find area</li></ul> |
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