



5-K Math

Math K	September	October	November	December
Topics	○	○ sort and graph	○ patterns	○ numbers to 5
Skills I-Introduce D-Develop M-Master R-Reinforce	The Students Will... ➤	The Students Will... ➤ understand fewer, more, as many as ➤ match 1 on 1 ➤ identify groups that have more, fewer ➤ make and interpret graphs	The Students Will... ➤ recognize/identify patterns ➤ make patterns ➤ extend patterns ➤ identify kinds of patterns	The Students Will... ➤ count and write to 5 ➤ order numbers to 5 ➤ group to 5 ➤ use ordinal numbers through 5th



Math K	January	February	March	April
Topics	<ul style="list-style-type: none"> ○ Number to 10 ○ Ordinal Numbers ○ Measurement 	<ul style="list-style-type: none"> ○ Solids, Shapes, and Sharing ○ Number Sense 	<ul style="list-style-type: none"> ○ Number Sense ○ Time & Money 	<ul style="list-style-type: none"> ○ Number Sense ○ Number to 20 ○ Numbers Greater than 20
Skills I-Introduce D-Develop M-Master R-Reinforce	<p>The Students Will...</p> <ul style="list-style-type: none"> ➤ count, recognize and write numerals through 10 ➤ Use ordinal numbers through 10th ➤ Sequence numbers through 10 ➤ Compare, estimate, measure objects using non-standard units ➤ compare weights, similar weights, more than, less than, using a scale ➤ estimate capacity of non- standard containers using non-standard objects 	<p>The Students Will...</p> <ul style="list-style-type: none"> ➤ explore shapes and solid ➤ identify shapes within solids ➤ identify equal parts and be able to share in equal parts ➤ understand different ways to make numbers to 10 ➤ estimate and verify capacity and weight and length 	<p>The Students Will...</p> <ul style="list-style-type: none"> ➤ sequence pictures, understand concept of before and after ➤ tell time to the hour ➤ recognize penny, nickel and dime and be able to count to 19 cents using these coins ➤ join and separate groups in an understanding of addition and subtraction ➤ compare groups for length and size – this section will continue into April 	<p>The Students Will...</p> <ul style="list-style-type: none"> ➤ Recognize numbers to 20 ➤ Recognize numbers greater than 20 ➤ write and recognize numbers to 30 ➤ make groups of up to 30 objects



Math K	May	June
Topics	<ul style="list-style-type: none">○ Explore Addition & Subtraction	<ul style="list-style-type: none">○
Skills I-Introduce D-Develop M-Master R-Reinforce	The Students Will... <ul style="list-style-type: none">➤ understand the basics of addition and subtraction using groups of objects and also numerals	The Students Will... <ul style="list-style-type: none">➤



1st Grade Math

Math 1 st	September	October	November	December
Topics	○	○	○	○
Skills I-Introduce D-Develop M-Master R-Reinforce	<p>The Students Will...</p> <ul style="list-style-type: none"> ➤ D - Identify and write numbers 1 - 10 ➤ D - Write numbers 1-20 in order ➤ I - Use pictures to solve problems. ➤ I - Use data from pictures to solve problems ➤ D - Explore more and fewer. ➤ D - Identify patterns. ➤ D - Extend patterns. ➤ I - Classify according to different criteria. ➤ I - Create and interpret a pictograph. ➤ D - Create and interpret a bar graph. ➤ I - Write and solve simple addition sentences. ➤ I - Use manipulatives to demonstrate simple addition sentences. ➤ D - Identify the months of the year. ➤ D - Identify the days of the week 	<p>The Students Will...</p> <ul style="list-style-type: none"> ➤ I - Identify odd and even numbers. ➤ I - Find missing parts to an addition picture. ➤ D - Draw a picture to help solve a story problem. ➤ D - Solve addition sentences to 12. ➤ I - Learn to solve vertical addition problems. ➤ I - Learn to sequence a story problem to aid understanding. ➤ I - Explore subtraction ➤ I - Use subtraction to solve a problem. ➤ I - Learn to solve vertical subtraction problems. ➤ I - Learn that addition and subtraction are related. ➤ I - Learn the vocabulary related to addition and subtraction. ➤ I - Learn to choose the proper operation to solve a story problem. 	<p>The Students Will...</p> <ul style="list-style-type: none"> ➤ I - Learn to count on to add. ➤ I - Identify turn around facts. ➤ I - Use a number line to aid in addition. ➤ I - Add 0 to any number. ➤ I - Use a number line to count back to aid in subtraction. ➤ I - Learn the rules of subtracting all. ➤ I - Learn the rule of subtracting 0. ➤ D - Write a number sentence. ➤ Geometry ➤ I - Explore the characteristics of solids. ➤ I - Learn the vocabulary associated with shapes: solid, plane, face. ➤ I - Compare size and shape. ➤ I - Understand symmetry. 	<p>The Students Will...</p> <ul style="list-style-type: none"> ➤ I- Explore fair shares ➤ I- Understand fourths. ➤ I- Understand thirds. ➤ I- Understand halves. ➤ I- Explore fractions of a set. ➤ I - Use data from a picture to solve a problem ➤ I - Learn to add doubles ➤ I - Understand adding doubles plus one. ➤ I - Learn to use double to subtract. ➤ I - Learn to compare and contrast. ➤ I - Learn to use tally marks to collect and use data.



Math 1 st	January	February	March	April
Topics	○	○	○	○
Skills I-Introduce D-Develop M-Master R-Reinforce	The Students Will... <ul style="list-style-type: none"> ➤ I - Relate addition and subtraction facts ➤ I- Explore fact families ➤ I - Learn to use addition to subtract. ➤ I - Learn number words to 19. ➤ I - Explore the tens ➤ I - Explore numbers and words to 60. ➤ I - Explore estimation. ➤ D - Use data from a graph. 	The Students Will... <ul style="list-style-type: none"> ➤ I - Count by 2s. ➤ I - Count by 5s. ➤ I - Count by 10s. ➤ I - Explore patterns. ➤ I - Use graphic aids. ➤ I - Explore ordinal numbers. ➤ I - Explore tens and ones. ➤ I - Practice estimation. ➤ I - Understand 10 ones make 1 ten. ➤ I - Use objects to solve problems. ➤ I - Compare numbers. 	The Students Will... <ul style="list-style-type: none"> ➤ I - Identify quarters. ➤ I - Count mixed coins. ➤ D - Use data from a picture. ➤ D - Read a table. ➤ I - Identify the parts of a clock. ➤ I - Distinguish between the hour hand and minute hand. ➤ I - Write time to the hour. ➤ I - Write time to the half hour. ➤ I - Tell time on various clocks. ➤ I - Use logical reasoning to solve a problem. ➤ I - Identify order of events. ➤ I - Estimate time passage. ➤ I - Identify parts of the calendar. ➤ I - Identify main idea and supporting details. ➤ I - Identify information not needed to solve a word problem. ➤ I - Explore measuring with nonstandard units. ➤ I - Estimate, measure and compare lengths. ➤ I - Estimate and measure using - inch and foot. ➤ I - Estimate and measure with centimeters. 	The Students Will... <ul style="list-style-type: none"> ➤ I - Explore weight. ➤ I - Compare to one pound and one kilogram. ➤ I - Compare cups, pints and quarts. ➤ I - Compare to on liter. ➤ I - Use a thermometer. ➤ D - Problem solve using logical reasoning. ➤ D - Add doubles to 18. ➤ D - Add doubles plus one. ➤ I - Add three numbers. ➤ I - Explore making 10 to add 7, 8, or 9. ➤ D - Choose a strategy to solve a problem.



Math 1 st	May	June
Topics	○	○
Skills I-Introduce D-Develop M-Master R-Reinforce	The Students Will... <ul style="list-style-type: none">➤ D - Relate addition to subtraction➤ D - Use doubles to subtract➤ D - Subtraction facts to 18➤ D - Demonstrate knowledge of fact families➤ D - Choose an operation➤ I - Explore adding tens➤ I - Explore adding tens➤ I - Add tens and ones➤ I - Regroup with addition➤ I - Use objects to solve a problem.➤ I - Subtract tens➤ I - Subtract tens and ones.➤ I - Regroup with subtraction➤ D - Choose an operation➤ I - Explore adding tens	The Students Will... <ul style="list-style-type: none">➤



2nd Grade Math

Math 2 nd	September	October	November	December
Topics	<ul style="list-style-type: none"> Graphing 	Basic +/- Review	<ul style="list-style-type: none"> Add/ Subtract Double Digit 	<ul style="list-style-type: none"> Fact Families & Patterns
Skills I-Introduce D-Develop M-Master R-Reinforce	The Students Will... <ul style="list-style-type: none"> identify bar graphs, pictographs, line graphs and Venn diagrams comparing numbers use skip counting find patterns use vocab: fewest, largest, equal demonstrate proper mathematical structure and organization 	The Students Will... <ul style="list-style-type: none"> solve addition and subtraction problems demonstrate knowledge of: problem solving, writing number sentences, selecting proper operations understand fact families comprehend vocabulary: operation, total, sum, difference, together, turnaround facts 	The Students Will... <ul style="list-style-type: none"> explore the use of doubles when completing addition and subtraction problems demonstrate the knowledge of fact families and their relationship to completing addition and subtraction problems identify different strategies for completing addition and subtraction problems apply and use addition or subtraction rules to a group of numbers solve multiple-step problems by selecting and applying addition and subtraction skills identify different vocabulary: fact families, turn around facts, addend, operation, mathematical rule 	The Students Will... <ul style="list-style-type: none"> explore fact families with sums through 18 complete and create fact families with sums through 18 use addition facts to check answers to subtraction facts solve addition and subtraction problems by drawing use fact families to find missing addends use different strategies to add three numbers with sums to 18 <ul style="list-style-type: none"> *look for a sum of 10 *look for a double *look for a 1 *look for a sum to be a double determine the rule that is applied to a series of numbers through a pattern solve multiple-step problems involving addition and subtraction



Math 2 nd	January	February	March	April
Topics	<ul style="list-style-type: none"> ○ Place Value ○ Patterns 	<ul style="list-style-type: none"> ○ Money 	<ul style="list-style-type: none"> ○ Clocks 	<ul style="list-style-type: none"> ○ 2-digit Addition
Skills I-Introduce D-Develop M-Master R-Reinforce	<p>The Students Will...</p> <ul style="list-style-type: none"> ➤ estimate quantities and check estimates by counting tens and ones ➤ record tens and ones as two-digit numbers ➤ read and write the words for numbers through 99 ➤ identify groups of ten that equal 100 ➤ solve problems using pictographs ➤ extend skip counting patterns ➤ identify numbers that are before, after, or between given numbers ➤ determine the number to the nearest ten ➤ compare numbers using greater than/less than and greatest/least ➤ use ordinal numbers through twentieth to describe the position of objects ➤ identify even and odd numbers 	<p>The Students Will...</p> <ul style="list-style-type: none"> ➤ find the value of a group dimes, nickels, and pennies through \$.99 ➤ identify quarters and find the value of a group of coins ➤ identify a half dollar and know its' value ➤ solve problems by making a list to find coin combinations equivalent to a given amount of money ➤ identify the fewest coins needed to show a given amount ➤ identify coin combinations equivalent to one dollar ➤ solve problems by making change in amounts through \$.05 	<p>The Students Will...</p> <ul style="list-style-type: none"> ➤ explore how many times an activity can be done in one minute ➤ estimate whether an activity takes more or less than one minute ➤ identify the time to one hour ➤ determine the number of hours that have gone by ➤ solve problems related to time by using information from a table ➤ identify time to five-minute and, fifteen, forty-five, and thirty-minute intervals ➤ solve problems related to a calendar through the use of information on a table 	<p>The Students Will...</p> <ul style="list-style-type: none"> ➤ add multiples of ten ➤ add a multiple of ten to a two-digit number ➤ add a multiple of ten to two-digit number mentally ➤ estimate sums by finding the nearest ten ➤ solve problems by using data to make predictions ➤ use regrouping to add a one-digit number to a two-digit number ➤ determine when regrouping is needed to add a one-digit number to a two-digit number ➤ add a one-digit number to a two-digit number ➤ recognize when regrouping is needed to add a two-digit number to a two-digit number



Math 2 nd	May	June
Topics	<ul style="list-style-type: none"> ○ 2-Digit Subtraction 	<ul style="list-style-type: none"> ○ Numbers to 1,000
Skills I-Introduce D-Develop M-Master R-Reinforce	The Students Will... <ul style="list-style-type: none"> ➤ subtract multiples of ten ➤ subtract a multiple of ten from a two-digit number ➤ estimate the differences by finding the nearest ten ➤ use regrouping to subtract a one-digit number from a two-digit number ➤ determine when regrouping is needed to subtract a one-digit number from a two-digit number ➤ subtract a one-digit number from a two-digit number ➤ find the difference of 2 two-digit numbers with or without regrouping ➤ recognize when regrouping is needed to subtract 2 two-digit numbers ➤ use addition to check the difference in subtraction problem ➤ solve problems by identifying unnecessary information 	The Students Will... <ul style="list-style-type: none"> ➤ identify and write hundreds ➤ identify and compare hundreds ➤ write three-digit numbers in standard form ➤ identify numbers that are before, after, or between given numbers ➤ compare three-digit numbers using the symbols for greater than, less than and equal to ➤ order numbers to 1, 000 ➤ add or subtract hundreds mentally ➤ add or subtract hundreds without regrouping ➤ find the sum of 2 three-digit numbers with or without regrouping.



3rd Grade Math

Math 3 rd	September	October	November	December
Topics	<ul style="list-style-type: none"> ○ Graphs ○ Word Problems 	<ul style="list-style-type: none"> ○ Round ○ Time 	<ul style="list-style-type: none"> ○ Money ○ Estimate ○ Regrouping 	<ul style="list-style-type: none"> ○
Skills I-Introduce D-Develop M-Master R-Reinforce	<p>The Students Will...</p> <ul style="list-style-type: none"> ➤ Memorize addition facts through 20 ➤ Complete word problems using addition and subtraction ➤ Create bar graphs, pictographs, line graphs. ➤ interpret bar graphs, pictographs, line graphs 	<p>The Students Will...</p> <ul style="list-style-type: none"> ➤ Round numbers to the nearest 10 ➤ Round numbers to the nearest 100 ➤ read numbers through hundred thousand ➤ tell time to the nearest five minute using a face clock 	<p>The Students Will...</p> <ul style="list-style-type: none"> ➤ Estimate Sums ➤ Perform column addition ➤ Add & Subtract money ➤ Add using front end estimation ➤ Give change ➤ Use estimation when subtracting ➤ Perform subtraction with regrouping 	<p>The Students Will...</p> <ul style="list-style-type: none"> ➤ Continued from November



Math 3 rd	January	February	March	April
Topics	<ul style="list-style-type: none"> ○ Multiplication 	<ul style="list-style-type: none"> ○ 	<ul style="list-style-type: none"> ○ Division ○ Geometric Shapes ○ Math strategies 	<ul style="list-style-type: none"> ○ Patterns ○ 2-digit multiplication ○ Estimating ○ Division with Remainders
Skills I-Introduce D-Develop M-Master R-Reinforce	<p>The Students Will...</p> <ul style="list-style-type: none"> ➤ Multiplication Sentences/word problems ➤ Learn and use multiplication vocabulary ➤ Count by 2, 3, 4, 5, 6, 7, 8, 9, 10 ➤ Multiply 3 factors ➤ Know Basic Multiplication Facts 	<p>The Students Will...</p> <ul style="list-style-type: none"> ➤ Continued from January 	<p>The Students Will...</p> <ul style="list-style-type: none"> ➤ Know basic division facts ➤ use multiplication, division, addition, & subtraction strategies to answer story problems ➤ explore algebra using balance scales ➤ identify even and odd numbers ➤ name basic geometric shapes 	<p>The Students Will...</p> <ul style="list-style-type: none"> ➤ identify Multiplication patterns using 10s ➤ complete two digit number multiplication ➤ Estimate products ➤ Multiply money ➤ Perform division with remainders



Math 3 rd	May	June
Topics	<ul style="list-style-type: none">○ Fractions○ Metric System○	○
Skills I-Introduce D-Develop M-Master R-Reinforce	The Students Will... <ul style="list-style-type: none">➤ measure to the nearest 1/4 inch➤ add and subtract fractions➤ Work with mixed fractions➤ Compare fractions➤ Compare measurements➤ Understanding decimals to the nearest hundredth➤ Understanding metric system and using metric system	The Students Will... <ul style="list-style-type: none">➤ Continued from May



4th Grade Math

Math 4 th	September	October	November	December
Topics	<ul style="list-style-type: none"> ○ Graphs and Facts Review 	<ul style="list-style-type: none"> ○ Place Value and Time 	<ul style="list-style-type: none"> ○ Place Value and Time cont. ○ Adding and Subtracting Whole Numbers and Money 	<ul style="list-style-type: none"> ○ Adding and Subtracting Whole Numbers and Money cont. ○ Multiplication and Division Concepts and Facts
Skills I-Introduce D-Develop M-Master R-Reinforce	<p>The Students Will...</p> <ul style="list-style-type: none"> ➤ read pictographs and bar graphs ➤ read points as ordered pairs on a coordinate grid ➤ read line graphs ➤ read line plot ➤ read stem and leaf plots ➤ solve word problems by choosing an operation ➤ make bar graphs, line plots ➤ find range, median, and mode ➤ use algebra: what's the rule? ➤ problem solve with guess and check method 	<p>The Students Will...</p> <ul style="list-style-type: none"> ➤ explore place-value relationship ➤ read and write numbers in the hundred-millions ➤ solve problems by making an organized list ➤ compare numbers to find which is greater ➤ order a group of numbers ➤ explore rounding ➤ Tell time to the minute and identify A.M. and P.M. ➤ explore estimating and comparing time ➤ find elapsed time 	<p>The Students Will...</p> <ul style="list-style-type: none"> ➤ explore the calendar ➤ solve problems by creating a schedule for making an audio tape ➤ explore addition and subtraction patterns ➤ explore adding and subtracting on a thousand chart ➤ estimate sums and differences using rounding ➤ solve problems needing exact answers or estimates ➤ add 3-digit and 4-digit numbers ➤ add 3 and 4 addend ➤ subtract 3-digit and 4-digit numbers ➤ subtract from numbers with zeros 	<p>The Students Will...</p> <ul style="list-style-type: none"> ➤ add and subtract numbers mentally ➤ count and compare money ➤ add and subtract money amounts ➤ explore making change ➤ explore algebra by balancing number sentences ➤ solve problems by looking for a pattern ➤ review the meaning of multiplication ➤ create multiplication arrays for various facts



Math 4 th	January	February	March	April
<p>Topics</p>	<ul style="list-style-type: none"> ○ Multiplication and Division Concepts and Facts 	<ul style="list-style-type: none"> ○ Multiplication and Division Concepts and Fact cont. ○ Multiplying by 1-Digit Factors 	<ul style="list-style-type: none"> ○ Multiplying by 1-Digit Factors cont. ○ Multiplying by 2-Digit Factors 	<ul style="list-style-type: none"> ○ Multiplying by 2-Digit Factors cont. ○ Dividing by 1-Digit Divisors
<p>Skills I-Introduce D-Develop M-Master R-Reinforce</p>	<p>The Students Will...</p> <ul style="list-style-type: none"> ➤ learn the doubles strategy for multiplying by 2 ➤ learn the fast fives strategy for multiplying by 5 ➤ learn the rules for multiplying by 1 and 0 ➤ learn the nifty nines strategy for multiplying by 9 ➤ learn the double doubler strategy for multiplying by 4 ➤ learn the double plus one strategy for multiplying by 3 ➤ learn the friendly chunks strategy for multiplying by 6, 7, 8 ➤ learn the half then double strategy for multiplying by 6, 7, 8 ➤ learn and use the commutative property ➤ study patterns in multiplication ➤ explore patterns in multiples of 10, 11, and 12 ➤ review the meaning of division ➤ explore multiplication and division stories ➤ divide with 2, 5, and 9 as divisors 	<p>The Students Will...</p> <ul style="list-style-type: none"> ➤ Divide with 0 and 1 ➤ Divide with 3 and 4 as divisors ➤ Divide with 6, 7, and 8 as divisors ➤ Explore even and odd numbers ➤ Explore factors ➤ Solve problems with too much or too little information ➤ Solve problems by comparing strategies ➤ Multiply by multiples of ten ➤ Explore multiplication patterns ➤ Estimate products 	<p>The Students Will...</p> <ul style="list-style-type: none"> ➤ Multiply 2-digit numbers ➤ Multiply 3-digit numbers ➤ Multiply using different methods ➤ Multiply amounts of money ➤ Use mental math to multiply ➤ Multiply when they have three factors ➤ Solve multi-step problems ➤ Solve problems by making a table ➤ Estimate products of 2-digit factors ➤ Multiply by multiples of 10 ➤ Explore multiplying with 2-digit factors 	<p>The Students Will...</p> <ul style="list-style-type: none"> ➤ Multiply with 2-digit factors ➤ Estimate greater products ➤ Multiply numbers in the thousands ➤ Multiply amounts of money ➤ Solve problems needing overestimates or underestimates ➤ Solve problems by drawing a picture ➤ Explore division patterns ➤ Use basic facts to estimate quotients



Math 4 th	May	June
<p>Topics</p>	<ul style="list-style-type: none"> ○ Dividing by 1-Digit Divisors cont. ○ Using Geometry 	<ul style="list-style-type: none"> ○ Using Geometry cont.
<p>Skills I-Introduce D-Develop M-Master R-Reinforce</p>	<p>The Students Will...</p> <ul style="list-style-type: none"> ➤ Explore division with remainders ➤ Explore division ➤ Divide 2-digit dividends ➤ Find 3-digit quotients ➤ Find 2 or 3-digit quotients ➤ Divide when there are zeros in the quotient ➤ Solve word problems by interpreting remainders ➤ Explore division with money ➤ Divide money amounts ➤ Explore finding the mean ➤ Explore divisibility ➤ Solve problems by working backward ➤ Explore solids ➤ Explore similar figures 	<p>The Students Will...</p> <ul style="list-style-type: none"> ➤ Explore polygons ➤ Explore triangles ➤ Classify angles and triangles ➤ Explore congruent figures and motions



5th Grade Math

Math 5 th	September	October	November	December
Topics	<ul style="list-style-type: none"> ○ Reading line and bar graphs ○ Reading and making stem and leaf plots ○ Problem solving 	<ul style="list-style-type: none"> ○ Whole numbers and decimals: Place value, adding, and subtracting ○ Multiplying whole numbers and decimals 	<ul style="list-style-type: none"> ○ Whole numbers and decimals: Place value, adding, and subtracting ○ Multiplying whole numbers and decimals 	<ul style="list-style-type: none"> ○ Multiplying Decimals
Skills I-Introduce D-Develop M-Master R-Reinforce	<p>The Students Will...</p> <ul style="list-style-type: none"> ➤ Use graphs to analyze data ➤ Use a stem and leaf plot to answer questions about data ➤ Find the range, mode, and median for a set of data ➤ Solve problems by choosing an operation ➤ Determine the correct scale to use when making a graph 	<p>The Students Will...</p> <ul style="list-style-type: none"> ➤ Understand, read, and write numbers through the millions ➤ Understand, read, and write numbers through the billions ➤ Show, read, and write decimals to the thousandths ➤ Add/subtract whole numbers and decimals ➤ Compare and order whole numbers and decimals ➤ Explore multiplication patterns and properties ➤ Use rounding to estimate products ➤ Multiply by 1 and 2 digit numbers ➤ Use the multiplication properties to complete... 	<p>The Students Will...</p> <ul style="list-style-type: none"> ➤ Understand, read, and write numbers through the millions ➤ Understand, read, and write numbers through the billions ➤ Show, read, and write decimals to the thousandths ➤ Add/subtract whole numbers and decimals ➤ Compare and order whole numbers and decimals ➤ Explore multiplication patterns and properties ➤ Use rounding to estimate products ➤ Multiply by 1 and 2 digit numbers ➤ Use the multiplication properties to complete... 	<p>The Students Will...</p> <ul style="list-style-type: none"> ➤ Decide whether to use paper and pencil, calculator, or mental math when multiplying. ➤ Explore decimal patterns. ➤ Use rounding and compatible numbers to estimate products. ➤ Multiply a whole number by a decimal ➤ Multiply decimals by decimals ➤ Insert zeros in products with decimals when necessary



Math 5 th	January	February	March	April
Topics	<ul style="list-style-type: none"> ○ Dividing Whole Numbers ○ Diving Decimals ○ 1-Digit Divisors 	<ul style="list-style-type: none"> ○ 2-Digit Divisors: Whole Numbers and Decimals 	<ul style="list-style-type: none"> ○ Geometry 	<ul style="list-style-type: none"> ○ Length, Perimeter, and Area
Skills I-Introduce D-Develop M-Master R-Reinforce	<p>The Students Will...</p> <ul style="list-style-type: none"> ➤ Review the meaning of division ➤ Explore patterns to divide ➤ Estimate quotients using compatible numbers ➤ Divide by a 1-digit divisor ➤ Divide money ➤ Divide decimals to the thousandths ➤ Find the factors of a number ➤ Explore prime and composite numbers 	<p>The Students Will...</p> <ul style="list-style-type: none"> ➤ Explore division with multiples of 10 ➤ Estimate quotients using basic facts and compatible numbers ➤ Divide with 2 digit divisors ➤ Divide whole numbers with zeros in the quotient ➤ Explore algebra by using expressions ➤ Solve a problem by using objects/acting it out ➤ Divide money ➤ Explore division of decimals by 10, 100, 1,000 	<p>The Students Will...</p> <ul style="list-style-type: none"> ➤ Show and name lines and angles ➤ Explore measuring angles ➤ Classify triangles ➤ Classify quadrilaterals ➤ Identify similar and congruent polygons ➤ Explore line of symmetry and geometry in motion 	<p>The Students Will...</p> <ul style="list-style-type: none"> ➤ Explore estimating and measuring length ➤ Change metric units of measure ➤ Express meters and centimeters as decimal equivalents ➤ Use decimals when working with centimeters, millimeters, and meters ➤ Explore perimeter of polygons ➤ Explore perimeter of a rectangle ➤ Explore area of rectangles ➤ Explore area of triangles ➤ Find the area of parallelograms ➤ Explore algebra by balancing equations ➤ Use equations to determine the circumference of circles



Math 5 th	May	June
Topics	○ Fractions	○
Skills I-Introduce D-Develop M-Master R-Reinforce	The Students Will... <ul style="list-style-type: none">➤ Use fractions to describe parts of regions, sets, and segments➤ Explore equivalent fractions➤ Use patterns to recognize and find equivalent fractions➤ Find the greatest common factor➤ Find the simplest form➤ Explore comparing and ordering fractions➤ Use common denominators to compare and order fractions➤ Write improper fractions as mixed numbers, and mixed numbers as improper fractions➤ Explore comparing and ordering mixed numbers➤ Use percents to name amounts less than or equal to 1➤ Write percents as fractions and decimals, and fractions and decimals as percents➤ add and subtract fractions➤ multiply fractions	The Students Will... <ul style="list-style-type: none">➤



6th Grade Math

Math 6 th	September	October	November	December
Topics	<ul style="list-style-type: none"> ○ Algebraic Relationships 	<ul style="list-style-type: none"> ○ Data and Statistics ○ Integers 	<ul style="list-style-type: none"> ○ Integers ○ Number and Operations: Decimals/Fractions 	<ul style="list-style-type: none"> ○ Rational Numbers ○ Fractions
Skills I-Introduce D-Develop M-Master R-Reinforce	The Students Will... <ul style="list-style-type: none"> ➤ Solve equations by using mental math and the guess and check strategy ➤ Find area of rectangles and squares ➤ Use powers and exponents in expressions ➤ Find the value of expressions using the order of operations ➤ Evaluate algebraic expressions ➤ Complete function tables ➤ Use formulas to find perimeter and area 	The Students Will... <ul style="list-style-type: none"> ➤ Construct and analyze statistical representations of data ➤ Display and analyze data using bar graphs and line graphs ➤ Interpret graphs ➤ Display and analyze data using a stem-and-leaf plot ➤ Display, analyze, and interpret data using line plots ➤ Find the mean, median, mode, range, and outliers of a data set ➤ Select appropriate displays for sets of data ➤ Use integers to represent real-world data ➤ Graph integers on a number line ➤ Compare integers 	The Students Will... <ul style="list-style-type: none"> ➤ Read decimals out loud using place value ➤ Compare and order decimals ➤ Round decimals to a certain place value ➤ Add and subtract decimals ➤ Multiply and divide decimals ➤ Estimate decimal sums, differences, products, and quotients ➤ Represent a repeating decimal ➤ Interpret division with zero 	The Students Will... <ul style="list-style-type: none"> ➤ Find the GCF of two or more numbers ➤ Express fractions in simplest form ➤ Write mixed numbers as improper fractions ➤ Write improper fractions as mixed numbers ➤ Find the LCM of two or more numbers ➤ Compare and order fractions ➤ Write decimals as fractions or mixed numbers in simplest form ➤ Write fractions as decimals ➤ Use ordered pairs to locate points



Math 6 th	January	February	March	April
Topics	<ul style="list-style-type: none"> ○ Ratios ○ Proportions ○ Functions ○ Percent ○ Probability 	<ul style="list-style-type: none"> ○ Systems of Measurement ○ Geometry ○ Angles ○ Polygons 	<ul style="list-style-type: none"> ○ Measurement ○ Perimeter ○ Area ○ Volume 	<ul style="list-style-type: none"> ○ Integers ○ Transformations
Skills I-Introduce D-Develop M-Master R-Reinforce	<p>The Students Will...</p> <ul style="list-style-type: none"> ➤ Solve problems involving ratios and rates ➤ Write mathematical expressions and equations ➤ Express rates and ratios as fractions ➤ Solve problems containing equivalent ratios ➤ Determine if two quantities are proportional ➤ Solve proportions ➤ Extend and describe arithmetic sequences using algebraic expressions ➤ Write an equation to describe a proportional situation ➤ Express percents as fractions and fractions as percents ➤ Create and analyze circle graphs ➤ Express percents as decimals and decimals as percents ➤ Find and interpret the probability of a simple event ➤ Compare experimental and theoretical probability ➤ Construct sample spaces using diagrams/trees ➤ Use the Fundamental Counting Principle ➤ Predict the actions of a larger group using a sample 	<p>The Students Will...</p> <ul style="list-style-type: none"> ➤ Measure length using customary measurements ➤ Estimate capacity and weight in customary measurements ➤ Measure using metric units ➤ Estimate mass and capacity in metric ➤ Convert customary units ➤ Convert metric units ➤ Measure angles using a protractor ➤ Estimate the degree of angles ➤ Determine angle relationships ➤ Find missing angles in triangles ➤ Find missing angles in quadrilaterals ➤ Classify triangles ➤ Classify quadrilaterals ➤ Determine similar and congruent figures ➤ Create tessellations 	<p>The Students Will...</p> <ul style="list-style-type: none"> ➤ Find the perimeter of polygons ➤ Find the circumference of circles ➤ Find the area of parallelograms ➤ Find the area of triangles ➤ Draw 3-dimensional figures ➤ Find volume of rectangular prisms ➤ Use a net to build a cube ➤ Find surface area of rectangular prisms 	<p>The Students Will...</p> <ul style="list-style-type: none"> ➤ Compare and order integers ➤ Find the absolute value ➤ Add integers ➤ Subtract integers ➤ Multiply integers ➤ Divide integers ➤ Graph ordered pairs on the coordinate plane in all 4 quadrants ➤ Perform translations on a coordinate plane ➤ Reflect a figure on a coordinate plane over the x or y axis ➤ Rotate a figure on a coordinate plane



Math 6 th	May	June
Topics	<ul style="list-style-type: none">○ Equations○ Expressions	<ul style="list-style-type: none">○ Multi-step Equations
Skills I-Introduce D-Develop M-Master R-Reinforce	The Students Will... <ul style="list-style-type: none">➤ Simplify algebraic expressions using the Distributive property➤ Solve equations by using addition➤ Solve equations by using subtraction➤ Solve equations by using division➤ Solve equations by using multiplication➤ Solve multi-step equations	The Students Will... <ul style="list-style-type: none">➤ Continue solving for variables in multi-step equations➤ Solve equations with variables on both sides



7th Grade Math

Math 7 th	September	October	November	December
Topics	<ul style="list-style-type: none"> ○ Introduction to Algebra and Functions 	<ul style="list-style-type: none"> ○ Integers 	<ul style="list-style-type: none"> ○ Algebra: Linear Equations and Functions 	<ul style="list-style-type: none"> ○ Fractions, Decimals, Percents ○ Applying Fractions
Skills I-Introduce D-Develop M-Master R-Reinforce	<p>The Students Will...</p> <ul style="list-style-type: none"> ➤ Use powers and exponents ➤ Find squares of numbers and square roots of perfect squares ➤ Evaluate expressions using the order of operations ➤ Evaluate simple algebraic expressions ➤ Write and solve equations using mental math ➤ Use commutative, associative, identity, and distributive properties to solve problems ➤ Describe relationships and extend terms in arithmetic sequences ➤ Make function tables and write equations 	<p>The Students Will...</p> <ul style="list-style-type: none"> ➤ Read and write integers ➤ Find the absolute value of a number ➤ Compare and order integers ➤ Graph points on a coordinate plane ➤ Add and subtract integers ➤ Multiply integers ➤ Divide integers ➤ Solve real-world problems containing integers ➤ Solve equations containing integers ➤ Solve problems containing integers using the Distributive Property 	<p>The Students Will...</p> <ul style="list-style-type: none"> ➤ Write verbal phrases and sentences as simple algebraic expressions and equations ➤ Solve addition and subtraction equations ➤ Solve multiplication equations ➤ Solve division equations ➤ Solve two-step equations ➤ Identify parts of an equation ➤ Find the perimeters and areas of figures using formulas ➤ Graph data to demonstrate relationships ➤ Create function tables 	<p>The Students Will...</p> <ul style="list-style-type: none"> ➤ Find prime factorization ➤ Find the GCF of two or more numbers ➤ Write fractions in simplest form ➤ Write fractions as terminating or repeating decimals using bar notation ➤ Write percents as fractions and fractions as percents ➤ Write percents as decimals and decimals as percents ➤ Find the LCM of two or more numbers ➤ Compare and order rational numbers ➤ Add/subtract fractions ➤ Add/subtract mixed numbers ➤ Multiply fractions and mixed numbers ➤ Solve equations with rational number solutions ➤ Divide fractions and mixed numbers



Math 7 th	January	February	March	April
Topics	<ul style="list-style-type: none"> ○ Rates ○ Proportions 	<ul style="list-style-type: none"> ○ Applying Percents ○ Statistics: Analyzing Data 	<ul style="list-style-type: none"> ○ Probability 	<ul style="list-style-type: none"> ○ Polygons ○ 2D/3D Figures
Skills I-Introduce D-Develop M-Master R-Reinforce	<p>The Students Will...</p> <ul style="list-style-type: none"> ➤ Write ratios as fractions in in simplest form ➤ Determine whether two ratios are equivalent ratios ➤ Determine unit rates ➤ Identify rates of change ➤ Find slope ➤ Change units in the customary system ➤ Change metric units of length, capacity, and mass ➤ Solve proportions in algebra ➤ Identify proportional relationships ➤ Graph inverse variations ➤ Solve problems involving scale drawings ➤ Write percents as fractions and decimals and vice versa 	<p>The Students Will...</p> <ul style="list-style-type: none"> ➤ Solve percent problems using ratios and proportionalities ➤ Solve using percent equations ➤ Find the percent of a number ➤ Solve problems using percent proportions ➤ Estimate percents ➤ Find the percent of increase ➤ Find the percent of decrease ➤ Find sales tax ➤ Find price after discount has been applied ➤ Solve problems involving both sales tax and discounts ➤ Solve problems involving simple interest ➤ Find interest compounded annually 	<p>The Students Will...</p> <ul style="list-style-type: none"> ➤ Find the probability of simple events occurring ➤ Identify sample spaces of events ➤ Use the Fundamental Counting Principle ➤ Solve problems involving permutations ➤ Solve problems involving combinations ➤ Find the theoretical probability of an event occurring ➤ Conduct experiments to find experimental probability ➤ Find compound events 	<p>The Students Will...</p> <ul style="list-style-type: none"> ➤ Classify angles as right, acute, obtuse, or straight ➤ Determine if a pair of angles is complementary or supplementary ➤ Find the missing angle of complementary and supplementary angles ➤ Find missing angles involving parallel lines and a transversal ➤ Find missing angles in vertical and adjacent angles ➤ Classify triangles by sides and angles ➤ Find missing angle measurements in triangles ➤ Classify quadrilaterals ➤ Find missing angle measurements in quadrilaterals ➤ Find the sum of interior angles of polygons ➤ Find each individual angle of regular polygons ➤ Determine if two figures are similar ➤ Find missing side lengths of similar triangles and quadrilaterals ➤ Create tessellations ➤ Perform translations ➤ Rotate figures on a coordinate plane ➤ Reflect a figure over the y or x axis on a coordinate plane ➤ Find area or parallelogram ➤ Find area of triangles trapezoids ➤ Find area of circle



Math 7 th	May	June
Topics	<ul style="list-style-type: none">○ Geometry○ Measurement	<ul style="list-style-type: none">○ Looking ahead to next year : Algebra relationships
Skills I-Introduce D-Develop M-Master R-Reinforce	The Students Will... <ul style="list-style-type: none">➤ Find circumference of circles➤ Find area of complex figures➤ Draw 3-dimensional figures➤ Find volume of prisms➤ Find volume of cylinders➤ Estimate square roots➤ Use the Pythagorean Theorem to find missing side measurements➤ Find surface area of rectangular prisms➤ Find surface area of cylinders	The Students Will... <ul style="list-style-type: none">➤ Translate verbal phrases into algebraic expressions and vice versa➤ Apply use of order of operations➤ Variable substitution in formulas



Pre-Algebra/Grade 8

Pre-Algebra/8	September	October	November	December
Topics	<ul style="list-style-type: none"> Algebraic Relationships 	<ul style="list-style-type: none"> Algebraic Expressions Integers Rational Numbers 	<ul style="list-style-type: none"> Expressions and Equations 	<ul style="list-style-type: none"> Inequalities Multi-step equations
Skills I-Introduce D-Develop M-Master R-Reinforce	The Students Will... <ul style="list-style-type: none"> Translate verbal phrases into algebraic expressions and vice versa Apply use of order of operations Variable substitution in formulas Use graphs to represent relations Use ordered pairs to locate points Analyze trends in graphs Evaluate expressions containing variables Use properties to simplify algebraic expressions 	The Students Will... <ul style="list-style-type: none"> Compare and order integers Evaluate expressions containing integers Simplify algebraic expressions Find the mean of a set of data Graph algebraic relationships Define and identify transformations Compare fractions and decimals Identify and classify rational numbers Evaluate algebraic expressions with fractions Add, subtract, multiply, and divide fractions 	The Students Will... <ul style="list-style-type: none"> Use the distributive property to write equivalent numerical and algebraic expressions Identify parts of an algebraic expression Simplify algebraic expressions using distributive property Solve equations using properties of equality Solve two-step equations Solve real-world problems involving two-step equations Write two-step equations Solve equations with grouping symbols Write inequalities Solve area/perimeter problems Graph inequalities on a number line 	The Students Will... <ul style="list-style-type: none"> Solve problems involving perimeter and area of triangles Solve equations with variables on both sides Solve equations that involve grouping symbols Write inequalities Graph inequalities on a number line Solve inequalities using the Addition/Subtraction Properties of Inequality Solve by multiplying/dividing by a positive or negative number Solve multi-step equations Solve multi-step inequalities



Pre-Algebra/8	January	February	March	April
Topics	<ul style="list-style-type: none"> ○ Ratios ○ Proportions ○ Similar Figures 	<ul style="list-style-type: none"> ○ Percent 	<ul style="list-style-type: none"> ○ Linear Functions ○ Graphing 	<ul style="list-style-type: none"> ○ Powers ○ Nonlinear Functions ○ Pythagorean Theorem
Skills I-Introduce D-Develop M-Master R-Reinforce	<p>The Students Will...</p> <ul style="list-style-type: none"> ➤ Write ratios as fractions in simplest form ➤ Simplify ratios involving measurements ➤ Find unit rates ➤ Compare and use unit rates to solve problems ➤ Convert rates using dimensional analysis ➤ Convert between systems of measurements ➤ Identify proportional and nonproportional relationships in tables and graphs ➤ Describe a proportional relationship using an equation ➤ Solve proportions ➤ Use proportions to solve real-world problems ➤ Use scale drawings ➤ Construct scale drawings ➤ Find missing measures of similar figures ➤ Use scale factors to solve problems ➤ Graph dilations on a coordinate plane ➤ Find the scale factor of a dilation ➤ Solve problems involving indirect measurement using shadow reckoning 	<p>The Students Will...</p> <ul style="list-style-type: none"> ➤ Express a percent as a fraction ➤ Express a fraction as a percent ➤ Express a percent as a decimal and a decimal as a percent ➤ Compare and order fractions, decimals and percents ➤ Use the percent proportion to solve problems ➤ Apply the percent proportion to real-world problems ➤ Compute mentally with percents ➤ Estimate with percents ➤ Solve percent problems using percent equations ➤ Apply the percent equation to real-world problems ➤ Find the percent of increase/decrease ➤ Solve real-world problems involving mark-ups and discounts ➤ Solve simple interest problems and apply the simple interest equations to real-world problems ➤ Solve compound interest problems ➤ Construct/analyze circle graphs 	<p>The Students Will...</p> <ul style="list-style-type: none"> ➤ Determine whether a relation is a function ➤ Write a function using function notation ➤ Describe sequences using words and symbols ➤ Find terms of arithmetic sequences ➤ Solve linear equations with two variables ➤ Graph linear equations using ordered pairs ➤ Find rates of change ➤ Solve problems involving rates of change ➤ Identify proportional and nonproportional relationships by finding a constant rate of change ➤ Solve problems involving direct variation ➤ Find the slope of a line ➤ Determine slopes and y-intercepts of lines ➤ Graph linear equations using the slope and y-intercepts ➤ Write equations given the slope and y-intercept, graph, table, or two points ➤ Use linear equations to solve problems ➤ Draw lines of fit for data ➤ Use lines of fit to make predictions ➤ Solve systems of linear equations by graphing ➤ Solve systems by substitution 	<p>The Students Will...</p> <ul style="list-style-type: none"> ➤ Write expressions using exponents ➤ Evaluate expressions containing exponents ➤ Factor monomials ➤ Multiply/divide monomials ➤ Write expressions using negative exponents ➤ Evaluate numerical expressions containing negative exponents ➤ Express numbers in standard form and in scientific notation ➤ Compare and order numbers written in scientific notation ➤ Find the power of a power ➤ Find the product of a power ➤ Determine if a function is linear or nonlinear from a graph/table ➤ Graph quadratic functions ➤ Use quadratic functions to solve problems ➤ Graph cubic functions ➤ Graph exponential functions ➤ Find square roots ➤ Solve equations by finding square roots ➤ Find missing angles/classify triangles ➤ Use the Pythagorean Theorem to find the length of a side of a right triangle ➤ Use distance formula to find distance between points



Pre-Algebra/8	May	June
<p>Topics</p>	<ul style="list-style-type: none"> ○ Distance and Angle ○ Surface Area ○ Volume 	<ul style="list-style-type: none"> ○ Statistics ○ Probability
<p>Skills I-Introduce D-Develop M-Master R-Reinforce</p>	<p>The Students Will...</p> <ul style="list-style-type: none"> ➤ Examine relationships between angles ➤ Examine relationships of angles formed by parallel lines and a transversal ➤ Identify corresponding parts of congruent triangles ➤ Define, identify, and draw rotations ➤ Determine if a figure has rotational symmetry ➤ Find missing angle measures of quadrilaterals ➤ Determine the sum of the interior angles of a polygon ➤ Find area of polygons ➤ Find area of composite figures ➤ Identify 3-dimensional figures ➤ Draw cross sections of 3-dimensional figures ➤ Find volume of prisms ➤ Find volume of composite figures ➤ Find volume of cylinders/pyramids/cones/spheres ➤ Find the lateral and surface area of prisms ➤ Find lateral and surface area of cylinders ➤ Find lateral and surface area of pyramids and cones ➤ Identify similar solids 	<p>The Students Will...</p> <ul style="list-style-type: none"> ➤ Find measures of central tendency ➤ Find measures of variation



Algebra/Grade 8

	September	October	November	December
Topics	<ul style="list-style-type: none"> Tools of Algebra 	<ul style="list-style-type: none"> Solving Linear Equations 	<ul style="list-style-type: none"> Functions and Patterns Analyzing Linear Equations 	<ul style="list-style-type: none"> Solving Systems of Linear Equations
Skills I-Introduce D-Develop M-Master R-Reinforce	<p>The Students Will...</p> <ul style="list-style-type: none"> Write mathematical expressions for verbal expression. Write verbal expressions for mathematical expressions. Evaluate numerical expressions by using the order of operations. Evaluate algebraic expressions by using the order of operations. Solve open sentence equations. Solve open sentence inequalities. Recognize the properties of identity and equality. Use the distributive property to evaluate expressions. Use the distributive property to simplify algebraic expressions. Recognize the commutative and associative properties. Use the commutative and associative properties to simplify algebraic expressions. Classify and graph real numbers. 	<p>The Students Will...</p> <ul style="list-style-type: none"> Translate verbal sentences into equations Translate equations into verbal Solve equations by using addition, subtraction, multiplication, and division Solve equations involving more than one operation Solve consecutive integer problems Solve equations with the variable on each side Solve equations involving grouping symbols Determine whether two ratios form a proportion Solve proportions Find percent of increase and decrease Solve problems involving percent of change Solve equations for given variables Use formulas to solve real-world problems Solve equations for given variables Solve weighted averages problems 	<p>The Students Will...</p> <ul style="list-style-type: none"> Represent relations as sets of ordered pairs, tables, mappings, and graphs Find the inverse of a relation Find function values Determine whether a relation is a function Identify linear equations, intercepts, and zeros Graph linear equations Recognize arithmetic sequences Extend and write formulas for arithmetic sequences Write an equation for a proportional and nonproportional relationship Use rate of change to solve problems Find the slope of a line Write and graph direct variation equations Solve problems involving direct /indirect variation Write and graph linear equations in slope-intercept form 	<p>The Students Will...</p> <ul style="list-style-type: none"> Determine whether a system of linear equations has no, one, or infinitely many solutions Solve systems of equations by graphing Solve systems of equations algebraically by substitution Solve systems of equations algebraically by using elimination with addition/subtraction/multiplication Determine the best method for solving systems of equations Apply systems of linear equations



Algebra/8	January	February	March	April
Topics	<ul style="list-style-type: none"> ○ Solving Linear Inequalities 	<ul style="list-style-type: none"> ○ Polynomials ○ Nonlinear Functions 	<ul style="list-style-type: none"> ○ Factoring 	<ul style="list-style-type: none"> ○ Quadratic Functions ○ Exponential Functions
Skills I-Introduce D-Develop M-Master R-Reinforce	<p>The Students Will...</p> <ul style="list-style-type: none"> ➤ Solve linear inequalities by using addition/subtraction ➤ Write solution sets using set-builder notation ➤ Solve linear inequalities by using multiplication/division ➤ Solve linear inequalities by using more than one operation ➤ Solve linear inequalities involving the distributive property ➤ Solve compound inequalities contain the word <i>and</i> graph their solution sets ➤ Solve compound inequalities containing the word <i>or</i> and graph their solution sets ➤ Solve absolute value equations ➤ Graph absolute value functions ➤ Solve absolute value inequalities ➤ Graph inequalities on a coordinate plane ➤ Solve systems of inequalities by graphing ➤ Apply inequalities and systems of inequalities into real-world situations 	<p>The Students Will...</p> <ul style="list-style-type: none"> ➤ Multiply monomials ➤ Simplify expressions involving powers of monomials ➤ Simplify expressions involving quotients of monomials ➤ Simplify expressions containing negative exponents ➤ Find degree of a polynomial ➤ Arrange the terms of a polynomial in ascending or descending order ➤ Add/subtract polynomials ➤ Solve equations involving polynomials ➤ Multiply two binomials using the FOIL method ➤ Multiply two polynomials by using the Distributive Property ➤ Find squares of sums and differences ➤ Find the product of a sum and a difference 	<p>The Students Will...</p> <ul style="list-style-type: none"> ➤ Find prime factorization of monomials ➤ Find the GCF of monomials ➤ Factor polynomials using the Distributive Property ➤ Solve quadratic equations in certain form ➤ Factor trinomials in the form $+bx + c$ ➤ Solve equations in that form equal to zero ➤ Factor trinomials of the form $+ bx + c$ ➤ Solve equations in that form equal to zero ➤ Factor binomials that are the difference of squares ➤ Solve equations involving the difference of squares ➤ Factor perfect square trinomials ➤ Solve equations involving perfect squares 	<p>The Students Will...</p> <ul style="list-style-type: none"> ➤ Graph quadratic functions ➤ Find the equation of the axis of symmetry and the coordinates of the vertex of a parabola ➤ Solve quadratic equations by graphing ➤ Estimate solutions by graphing (integral roots not found) ➤ Solve quadratic equations by finding the square root ➤ Solve quadratic equations by completing the square ➤ Solve quadratic equations by using the quadratic formula ➤ Use the discriminant to determine the number of solutions for a quadratic equation ➤ Graph exponential functions ➤ Identify data that displays exponential behavior ➤ Solve problems involving exponential growth ➤ Solve problems involving exponential decay



Algebra/8	May	June
<p>Topics</p>	<ul style="list-style-type: none"> ○ Radical Expressions and Triangles ○ Rational Expressions and Equations 	<ul style="list-style-type: none"> ○ Rational Expressions Continued ○ Review for Semester Final
<p>Skills I-Introduce D-Develop M-Master R-Reinforce</p>	<p>The Students Will...</p> <ul style="list-style-type: none"> ➤ Simplify radical expressions using the Product Property of Square Roots ➤ Simplify radical expressions using the Quotient Property of Square Roots ➤ Add/subtract/Multiply radical expressions ➤ Solve radical equations ➤ Solve radical equations with extraneous solutions ➤ Solve problems by using the Pythagorean Theorem ➤ Determine if a triangle is a right triangle ➤ Find the distance between two points using distance formula ➤ Find a point that is a given distance from a second point on a coordinate plane ➤ Determine if two triangles are similar ➤ Find the unknown measures of sides of two similar triangles ➤ Graph inverse variations ➤ Solve problems involving inverse variations 	<p>The Students Will...</p> <ul style="list-style-type: none"> ➤ Review for the Badger Semester Final ➤ Identify values excluded from the domain of a rational expression ➤ Simplify rational expressions ➤ Multiply/divide rational ➤ Divide a polynomial by a monomial/binomial ➤ Add/subtract rational expressions with like denominators ➤ Add/subtract rational expressions with unlike denominators ➤ Simplify mixed expressions ➤ Simplify complex fractions ➤ Solve rational equations ➤ Eliminate extraneous solutions