

# New Foundations Charter School Kindergarten Math Kit

Standard	Manipulative	Online Resources- Handouts/Games/ Videos/Information
<b>2.1 Numbers and Operations</b>	Flash Cards	n/a
Can write numbers 0-20 to represent with the number of objects	Flashcards/ C-Line Reusable Dry Erase Pockets	<a href="http://www.handwriting.com">www.handwriting.com</a> (Can create own worksheet focusing on writing numbers and spelling them.
Counts to tell the number of objects	Counters, Cubes, Counting and Comparing Worksheet	<a href="https://www.ixl.com/math/kindergarten">https://www.ixl.com/math/kindergarten</a> , <a href="http://www.abcya.com/number_match.htm">http://www.abcya.com/number_match.htm</a>
Applies concepts to compare numbers and quantities	Dominoes	<a href="http://www.abcya.com/comparing_number_values_jr.htm">http://www.abcya.com/comparing_number_values_jr.htm</a>
Uses place value to compose and decompose numbers up to 20	Number Lines	<a href="http://www.abcya.com/base_ten_fun.htm">http://www.abcya.com/base_ten_fun.htm</a> <a href="http://www.abcya.com/base_ten_bingo.htm">http://www.abcya.com/base_ten_bingo.htm</a>
<b>2.2 Algebraic Concepts</b>		
Extends the concepts of putting together and taking apart to add and subtract within 10	Counter/ Cubes	<a href="https://www.ixl.com/math/kindergarten">https://www.ixl.com/math/kindergarten</a>
Adds and subtracts fluently within 5	Dice/ Dominoes	<a href="https://www.ixl.com/math/kindergarten">https://www.ixl.com/math/kindergarten</a> <a href="http://www.abcya.com/counting_fish.htm">http://www.abcya.com/counting_fish.htm</a> <a href="http://www.oswego.org/ocsd-web/games/speedgrid/addition/urikares.html">http://www.oswego.org/ocsd-web/games/speedgrid/addition/urikares.html</a>

<b>2.3 Geometry</b>		
Identifies and describes two and three-dimensional shapes	Foam Shapes	<a href="https://vimeo.com/67850025">https://vimeo.com/67850025</a>
Analyzes, compares, creates, and composes two- and three-dimensional shapes	Foam Shapes	<a href="http://www.kindergartenworks.com/common-core-standards/3d-shape-bingo/">http://www.kindergartenworks.com/common-core-standards/3d-shape-bingo/</a>
<b>2.4 Measurement, Data, and Probability</b>		
Describes and compares attributes of length, area, weight, and capacity of everyday objects		Find some items around the house- compare them using terms such as which one weigh's more, which one is longer, etc. Resources to help: <a href="http://www.kindergartenkindergarten.com/2012/07/math-measurement-weight.html">http://www.kindergartenkindergarten.com/2012/07/math-measurement-weight.html</a> and <a href="http://www.kindergartenkindergarten.com/2012/06/problem-solving-measurement.html">http://www.kindergartenkindergarten.com/2012/06/problem-solving-measurement.html</a>
Classifies objects and counts the number of objects in each category	Counters/ Cubes	<a href="http://www.abcya.com/counting_sorting_comparing.htm">http://www.abcya.com/counting_sorting_comparing.htm</a>
<b>Standards of Mathematical Practices</b>		
Makes sense of problems and perseveres in solving them		
Attends to precision		

# New Foundations Charter School

## 1<sup>st</sup> Grade Math Kit

Standard	Manipulative	Online Resources- Handouts/Games/Videos/Information
<b>2.1 Numbers and Operations</b>		
Extends the counting sequence to read and write numerals to represent objects	Hundreds Chart	<a href="http://www.pearsonrealize.com/community/home">http://www.pearsonrealize.com/community/home</a> <a href="http://abcya.com/">http://abcya.com/</a> , <a href="http://www.aaamath.com/gwpg.html">http://www.aaamath.com/gwpg.html</a>
Uses place value concepts to represent amounts of tens and ones and to compare two-digit numbers	Hundreds Chart Number Line Counters	<a href="http://www.pearsonrealize.com/community/home">http://www.pearsonrealize.com/community/home</a> <a href="http://abcya.com/">http://abcya.com/</a> , <a href="http://www.aaamath.com/gwpg.html">http://www.aaamath.com/gwpg.html</a>
Uses place value concepts and properties of operations to add and subtract within 100	Hundreds Chart Number Line Counters	<a href="http://www.pearsonrealize.com/community/home">http://www.pearsonrealize.com/community/home</a> <a href="http://abcya.com/">http://abcya.com/</a> , <a href="http://www.aaamath.com/gwpg.html">http://www.aaamath.com/gwpg.html</a>
<b>2.2 Algebraic Concepts</b>		
Represents and solves problems involving addition and subtraction within 20	Hundreds Chart Number Line Flash Cards	<a href="http://www.pearsonrealize.com/community/home">http://www.pearsonrealize.com/community/home</a> <a href="http://abcya.com/">http://abcya.com/</a> , <a href="http://www.aaamath.com/gwpg.html">http://www.aaamath.com/gwpg.html</a>
Understands and applies properties of operations and the relationship between addition and subtraction	Hundreds Chart Number Line Flash Cards	<a href="http://www.pearsonrealize.com/community/home">http://www.pearsonrealize.com/community/home</a> <a href="http://abcya.com/">http://abcya.com/</a> , <a href="http://www.aaamath.com/gwpg.html">http://www.aaamath.com/gwpg.html</a>
Adds and subtracts fluently within 10	Hundreds Chart Number Line Flash Cards	<a href="http://www.pearsonrealize.com/community/home">http://www.pearsonrealize.com/community/home</a> <a href="http://abcya.com/">http://abcya.com/</a> , <a href="http://www.aaamath.com/gwpg.html">http://www.aaamath.com/gwpg.html</a>
<b>2.3 Geometry</b>		
Composes and distinguishes between two- and three-	At Home Shapes- Worksheet 2D and 3D Shapes Packet	<a href="http://www.pearsonrealize.com/community/home">http://www.pearsonrealize.com/community/home</a> <a href="http://abcya.com/">http://abcya.com/</a> , <a href="http://www.aaamath.com/gwpg.html">http://www.aaamath.com/gwpg.html</a>

dimensional shapes based on their attributes		
Uses the understanding of fractions to partition shapes into halves and quarters	Fraction Practice Packet	<a href="http://www.pearsonrealize.com/community/home">http://www.pearsonrealize.com/community/home</a> <a href="http://abcya.com/">http://abcya.com/</a> , <a href="http://www.aaamath.com/gwpg.html">http://www.aaamath.com/gwpg.html</a> , <a href="http://www.funbrain.com/fract/index.html">http://www.funbrain.com/fract/index.html</a>
<b>2.4 Measurement, Data, and Probability</b>		
Orders lengths and measures them both indirectly and by repeating length units	Connecting Cubes	<a href="http://www.pearsonrealize.com/community/home">http://www.pearsonrealize.com/community/home</a> <a href="http://abcya.com/">http://abcya.com/</a> , <a href="http://www.aaamath.com/gwpg.html">http://www.aaamath.com/gwpg.html</a>
Tells and writes time to the nearest half hour using both analog and digital clocks	Mini Clocks	<a href="http://www.pearsonrealize.com/community/home">http://www.pearsonrealize.com/community/home</a> <a href="http://abcya.com/">http://abcya.com/</a> , <a href="http://www.aaamath.com/gwpg.html">http://www.aaamath.com/gwpg.html</a> , "Stop the Clock" game; <a href="http://www.oswego.org/ocsd-web/games/stoptheclock/sthec1.html">http://www.oswego.org/ocsd-web/games/stoptheclock/sthec1.html</a>
Represents and interprets data using charts and tables	"Let's Make a Tally Chart"- Book Recommendation- Available at Amazon	<a href="http://www.pearsonrealize.com/community/home">http://www.pearsonrealize.com/community/home</a> <a href="http://abcya.com/">http://abcya.com/</a> , <a href="http://www.aaamath.com/gwpg.html">http://www.aaamath.com/gwpg.html</a>
<b>Standards of Mathematical Practices</b>		
Makes sense of problems and perseveres in solving them	At Home Activity Sheet	<a href="http://www.pearsonrealize.com/community/home">http://www.pearsonrealize.com/community/home</a> <a href="http://abcya.com/">http://abcya.com/</a>
Constructs viable arguments and critiques the reasoning of others	Adding and Subtracting Story Problems	<a href="http://www.pearsonrealize.com/community/home">http://www.pearsonrealize.com/community/home</a> <a href="http://abcya.com/">http://abcya.com/</a> , <a href="http://www.aaamath.com/gwpg.html">http://www.aaamath.com/gwpg.html</a>
Attends to precision	Adding and Subtracting Story Problems	<a href="http://www.pearsonrealize.com/community/home">http://www.pearsonrealize.com/community/home</a> <a href="http://abcya.com/">http://abcya.com/</a> , <a href="http://www.aaamath.com/gwpg.html">http://www.aaamath.com/gwpg.html</a>

# New Foundations Charter School

## 2<sup>nd</sup> Grade Math Kit

Standard	Manipulative	Online Resources- Handouts/Games/Videos/Information
<b>2.1 Numbers and Operations</b>		<b>All students can access their personal Pearson (curriculum) accounts for more activities and information. Please find this username/password in your child's Kit Book.</b>
Understands place value concepts to represent amounts of tens and ones and to compare three digit numbers	Place Value Unit Blocks	<a href="http://www.abcya.com/place_value_hockey.htm">http://www.abcya.com/place_value_hockey.htm</a> (click on "place values)
Uses place value concepts to read, write, and skip count to 1000	Place Value Unit Blocks	<a href="http://www.abcya.com/number_bubble_skip_counting.htm">http://www.abcya.com/number_bubble_skip_counting.htm</a>
Uses place value understanding and properties to add and subtract within 1000	Dry Erase Boards	<a href="http://www.math-aids.com/Place_Value/">www.math-aids.com/Place_Value/</a>
<b>2.2 Algebraic Concepts</b>		
Represents and solves problems involving addition and subtraction within 100	Hundred Charts Dry Erase Boards	<a href="https://www.ixl.com/math/grade-2/subtract-two-two-digit-numbers-without-regrouping">https://www.ixl.com/math/grade-2/subtract-two-two-digit-numbers-without-regrouping</a> (website without regrouping), <a href="https://www.ixl.com/math/grade-2/subtract-two-two-digit-numbers-with-regrouping">https://www.ixl.com/math/grade-2/subtract-two-two-digit-numbers-with-regrouping</a> (website with regrouping)
Uses mental math strategies to add and subtract within 20	Connecting Cubes Counters Erasable Number Lines	<a href="https://www.ixl.com/math/grade-2/add-doubles-complete-the-sentence">https://www.ixl.com/math/grade-2/add-doubles-complete-the-sentence</a> (adding doubles), <a href="https://www.ixl.com/math/grade-2/add-doubles-complete-the-sentence">https://www.ixl.com/math/grade-2/add-doubles-complete-the-sentence</a>

		<a href="https://www.ixl.com/math/grade-2/addition-with-pictures-sums-to-20">2/addition-with-pictures-sums-to-20</a> , <a href="https://www.ixl.com/math/grade-2/write-addition-sentences-to-describe-pictures-sums-to-20">https://www.ixl.com/math/grade-2/write-addition-sentences-to-describe-pictures-sums-to-20</a>
Works with equal groups of objects to gain foundations for multiplication	Hundred Charts Connecting Cubes Counters	<a href="https://www.ixl.com/math/grade-2/count-equal-groups">https://www.ixl.com/math/grade-2/count-equal-groups</a> , <a href="https://www.ixl.com/math/grade-2/identify-multiplication-sentences-for-equal-groups">https://www.ixl.com/math/grade-2/identify-multiplication-sentences-for-equal-groups</a> , <a href="https://www.ixl.com/math/grade-2/write-multiplication-sentences-for-equal-groups">https://www.ixl.com/math/grade-2/write-multiplication-sentences-for-equal-groups</a>
<b>2.3 Geometry</b>		
Analyzes and draws two- and three-dimensional shapes having specified attributes		<a href="https://www.ixl.com/math/grade-2/name-the-two-dimensional-shape">https://www.ixl.com/math/grade-2/name-the-two-dimensional-shape</a> , <a href="https://www.ixl.com/math/grade-2/select-two-dimensional-shapes">https://www.ixl.com/math/grade-2/select-two-dimensional-shapes</a> , <a href="https://www.ixl.com/math/grade-2/count-sides-and-vertices">https://www.ixl.com/math/grade-2/count-sides-and-vertices</a>
Uses the understanding of fractions to partition shapes into halves, quarters, and thirds		<a href="https://www.ixl.com/math/grade-2/halves-thirds-and-fourths">https://www.ixl.com/math/grade-2/halves-thirds-and-fourths</a>
<b>2.4 Measurement, Data, and Probability</b>		
Measures and estimates lengths in standard units using appropriate tools		<a href="https://www.ixl.com/math/grade-2/measure-using-an-inch-ruler">https://www.ixl.com/math/grade-2/measure-using-an-inch-ruler</a> , <a href="https://www.ixl.com/math/grade-2/measure-using-a-centimeter-ruler">https://www.ixl.com/math/grade-2/measure-using-a-centimeter-ruler</a>
Tells and writes time to the nearest five minutes using both analog and digital clocks		<a href="https://www.ixl.com/math/grade-2/match-analog-clocks-and-times">https://www.ixl.com/math/grade-2/match-analog-clocks-and-times</a> , <a href="https://www.ixl.com/math/grade-2/match-analog-and-digital-clocks">https://www.ixl.com/math/grade-2/match-analog-and-digital-clocks</a> , <a href="https://www.ixl.com/math/grade-2/match-analog-and-digital-clocks">https://www.ixl.com/math/grade-</a>

		<a href="https://www.ixl.com/math/grade-2/read-clocks-and-write-times">2/read-clocks-and-write-times</a> , <a href="https://www.ixl.com/math/grade-2/am-or-pm">https://www.ixl.com/math/grade-2/am-or-pm</a>
Solves problems and makes change using coins and paper currency with appropriate symbols		<a href="https://www.ixl.com/math/grade-2/making-change">https://www.ixl.com/math/grade-2/making-change</a> , <a href="https://www.ixl.com/math/grade-2/count-money-pennies-nickels-and-dimes-only">https://www.ixl.com/math/grade-2/count-money-pennies-nickels-and-dimes-only</a> , <a href="https://www.ixl.com/math/grade-2/count-money-up-to-1-dollar">https://www.ixl.com/math/grade-2/count-money-up-to-1-dollar</a>
Represents and interprets data in line plots, bar graphs, and picture graphs		<a href="https://www.ixl.com/math/grade-2/interpret-bar-graphs">https://www.ixl.com/math/grade-2/interpret-bar-graphs</a> , <a href="https://www.ixl.com/math/grade-2/create-bar-graphs">https://www.ixl.com/math/grade-2/create-bar-graphs</a> , <a href="https://www.ixl.com/math/grade-2/interpret-line-plots">https://www.ixl.com/math/grade-2/interpret-line-plots</a> , <a href="https://www.ixl.com/math/grade-2/interpret-pictographs">https://www.ixl.com/math/grade-2/interpret-pictographs</a>
<b>Standards of Mathematical Practices</b>		
Makes sense of problems and perseveres in solving them	Cubes Number Lines Counters Hundred Chart	<a href="https://www.ixl.com/math/grade-2/addition-word-problems-up-to-two-digits">https://www.ixl.com/math/grade-2/addition-word-problems-up-to-two-digits</a> (addition word problems--2 digit), <a href="https://www.ixl.com/math/grade-2/addition-word-problems-one-digit">https://www.ixl.com/math/grade-2/addition-word-problems-one-digit</a> (addition word problems--1 digit), <a href="https://www.ixl.com/math/grade-2/subtraction-word-problems-up-to-18">https://www.ixl.com/math/grade-2/subtraction-word-problems-up-to-18</a> (subtraction word problems---1 digit), <a href="https://www.ixl.com/math/grade-2/subtraction-word-problems-up-to-two-digits">https://www.ixl.com/math/grade-2/subtraction-word-problems-up-to-two-digits</a> (subtraction word problems---2 digit)
Constructs viable arguments and critiques the reasoning of others	Number Line Hundred Chart	<a href="https://www.ixl.com/math/grade-2/guess-the-number">https://www.ixl.com/math/grade-2/guess-the-number</a>
Attends to precision		

# New Foundations Charter School

## 3<sup>rd</sup> Grade Math Kit

Standard	Manipulative	Online Resources- Handouts/Games/Videos/Information
<b>2.1 Numbers and Operations</b>	Place Value Practice Boards Worksheets Dry Erase Markers Sheet Protectors	
Applies place value understanding and properties of operations to perform multi-digit arithmetic	Place Value Practice Board	<a href="http://www.snappymaths.com/counting/placevalue/placevalue.htm">http://www.snappymaths.com/counting/placevalue/placevalue.htm</a>
Explores and develops an understanding of fractions as numbers	Fraction Bars	Khanacademy.com > Subject> Search by Grade> 3rd grade> Topics> Fractions
<b>2.2 Algebraic Concepts</b>	Flash Cards	
Represents and solves problems involving addition, subtraction, multiplication and division		Khanacademy.com > Subject> Search by Grade> 3rd grade> Topics> Addition and Subtraction
Understands properties of multiplication and the relationship between multiplication and division		Khanacademy.com > Subject> Search by Grade> 3rd grade> Topics> Multiplication and Division  <a href="http://www.mathcats.com/explore/families/printmultcards.html">http://www.mathcats.com/explore/families/printmultcards.html</a>
Demonstrates multiplication and division fluency within 100	Flash Cards	Khanacademy.com > Subject> Search by Grade> 3rd grade> Topics> Multiplication and Division
Solves problems using appropriate operation, and identifies and explains patterns in arithmetic	Operation Key Words Worksheet	

<b>2.3 Geometry</b>	Fraction Sheets	
Identifies, compares, and classifies shapes and their attributes	Printed Flash Cards (see printing packet)	Khanacademy.com > Subject> Search by Grade> 3rd grade> Topics> Measurement and Geometry> Quadrilaterals
Uses the understanding of fractions to divide shapes into equal parts and expresses fractions as part of a whole	Fraction Sheets	Khanacademy.com > Subject> Search by Grade> 3rd grade> Topics> Fractions
<b>2.4 Measurement, Data, and Probability</b>	Judy Clocks, Money Manipulatives, Blank Graph Templates, Blank Grid Paper	
Solves problems involving measurement and estimation of temperature, liquid volume, mass, and length		Khanacademy.com > Subject> Search by Grade> 3rd grade> Topics> Measurement and Geometry> Mass/ Volume  Khanacademy.com > Subject> Search by Grade> 2nd grade> Topics> Measurement and Data> Measuring Length
Tells and writes time to the nearest minute	Clocks	Khanacademy.com > Subject> Search by Grade> 3rd grade> Topics> Measurement and Geometry> Time
Solves problems and makes change involving money using a combination of coins and bills	Play Money	Khanacademy.com > Subject> Search by grade> 2nd Grade> Measurement and data> Money
Solves problems by calculating time intervals	Judy Clocks to be used with blank clock practice worksheet, create your own hypothetical start and finish times to calculate elapsed time.	(See printed packet on elapsed time) Khanacademy.com > Subject> Search by Grade> 3rd grade> Topics> Measurement and Geometry> Time

Represents and interprets data using tally charts, tables, pictographs, line plots, and bar graphs	See print out: Blank Bar graph and pictograph template for use with dry erase markers and writing sleeves	Khanacademy.com > Subject> Search by Grade> 3rd grade> Topics> Measurement and Geometry> Bar graphs/ Picture Graphs/ Line Plots
Determines the area of a rectangle using multiplication and addition	Grid Paper (See print packet) use inside dry erase sleeve, draw the shape in questions, write applicable equations, then count to help solve. Check answer by multiplying.	Khanacademy.com > Subject> Search by Grade> 3rd grade> Topics> Measurement and Geometry> Multiply to find area
Solves problems involving perimeters of polygons and distinguishes between linear and area measures		<a href="https://www.khanacademy.com/subject/math/3rd-grade/measurement-and-geometry/perimeter-perimeter-word-problems/a/3rd-grade-measurement-and-geometry-perimeter-perimeter-word-problems">Khanacademy.com &gt; Subject&gt; Search by Grade&gt; 3rd grade&gt; Topics&gt; Measurement and Geometry&gt; Perimeter/ Perimeter word problems</a>
<b>Standards of Mathematical Practices</b>		
Makes sense of problems and perseveres in solving them	Problem Solving Skills- Use steps in order to solve word problems	
Constructs viable arguments and critiques the reasoning of others		<a href="https://www.illustrativemathematics.org/practice-standards/3">https://www.illustrativemathematics.org/practice-standards/3</a>
Attends to precision		<a href="https://www.illustrativemathematics.org/content-standards/1/OA/D/7/tasks/466">https://www.illustrativemathematics.org/content-standards/1/OA/D/7/tasks/466</a>

# New Foundations Charter School

## 4<sup>th</sup> Grade Math Kit

Standard	Manipulative	Online Resources- Handouts/Games/Videos/Information
<b>2.1 Numbers and Operations</b>	<b>Place Value Practice Boards Worksheets Printable Games Dry Erase Markers Sheet Protectors</b>	
Applies place value concepts to show an understanding of multi-digit whole numbers. Place value worksheet is included with the kit.	Place Value Practice Boards	<a href="http://www.snappymaths.com/counting/placevalue/placevalue.htm">http://www.snappymaths.com/counting/placevalue/placevalue.htm</a>
Uses place value understanding and properties of operations to perform multi-digit arithmetic	Above Manipulative can be used for this standard	<a href="http://www.lakeshorelearning.com/media/images/free_resources/are_you_ready/4-64.pdf">http://www.lakeshorelearning.com/media/images/free_resources/are_you_ready/4-64.pdf</a> <a href="http://www.lakeshorelearning.com/media/images/free_resources/are_you_ready/4-53.pdf">http://www.lakeshorelearning.com/media/images/free_resources/are_you_ready/4-53.pdf</a> <a href="http://www.mathatube.com/">http://www.mathatube.com/</a>
Extends the understanding of fractions to show equivalence and ordering	Fraction Bar Printable: <a href="http://www.printablee.com/postpic/2010/01/printable-strip-fraction-chart_286075.PNG">http://www.printablee.com/postpic/2010/01/printable-strip-fraction-chart_286075.PNG</a>	Fractions free online games: <a href="https://www.amazon.com/Simplify-Fractions-Lite-Learn-Math/dp/B00DSB72A4/ref=sr_1_cc_4?s=aps&amp;ie=UTF8&amp;qid=1484665622&amp;sr=1-4-catcorr&amp;keywords=compare+numbers">https://www.amazon.com/Simplify-Fractions-Lite-Learn-Math/dp/B00DSB72A4/ref=sr_1_cc_4?s=aps&amp;ie=UTF8&amp;qid=1484665622&amp;sr=1-4-catcorr&amp;keywords=compare+numbers</a>
Builds fractions from unit fractions by applying and extending previous understandings of operations with whole numbers	Fraction bar print out.	<a href="http://www.mathnook.com/math/skill/fractiongames.php">www.mathnook.com/math/skill/fractiongames.php</a>

Connects decimal notation to fractions and compares decimal fractions	<a href="http://www.mathplayground.com/">http://www.mathplayground.com/</a>	<a href="http://www.mathnook.com/math/skill/fractiongames.php">www.mathnook.com/math/skill/fractiongames.php</a>
<b>2.2 Algebraic Concepts</b>		
Represents and solves problems involving addition and subtraction within 100	Hundred Charts Dry Erase Boards	<a href="https://www.ixl.com/math/grade-2/subtract-two-two-digit-numbers-without-regrouping">https://www.ixl.com/math/grade-2/subtract-two-two-digit-numbers-without-regrouping</a> (website without regrouping), <a href="https://www.ixl.com/math/grade-2/subtract-two-two-digit-numbers-with-regrouping">https://www.ixl.com/math/grade-2/subtract-two-two-digit-numbers-with-regrouping</a> (website with regrouping)
Uses mental math strategies to add and subtract within 20	Connecting Cubes Counters Erasable Number Lines	<a href="https://www.ixl.com/math/grade-2/add-doubles-complete-the-sentence">https://www.ixl.com/math/grade-2/add-doubles-complete-the-sentence</a> (adding doubles), <a href="https://www.ixl.com/math/grade-2/addition-with-pictures-sums-to-20">https://www.ixl.com/math/grade-2/addition-with-pictures-sums-to-20</a> , <a href="https://www.ixl.com/math/grade-2/write-addition-sentences-to-describe-pictures-sums-to-20">https://www.ixl.com/math/grade-2/write-addition-sentences-to-describe-pictures-sums-to-20</a>
Works with equal groups of objects to gain foundations for multiplication	Hundred Charts Connecting Cubes Counters	<a href="https://www.ixl.com/math/grade-2/count-equal-groups">https://www.ixl.com/math/grade-2/count-equal-groups</a> , <a href="https://www.ixl.com/math/grade-2/identify-multiplication-sentences-for-equal-groups">https://www.ixl.com/math/grade-2/identify-multiplication-sentences-for-equal-groups</a> , <a href="https://www.ixl.com/math/grade-2/write-multiplication-sentences-for-equal-groups">https://www.ixl.com/math/grade-2/write-multiplication-sentences-for-equal-groups</a>
<b>2.3 Geometry</b>		
Analyzes and draws two- and three-dimensional shapes having specified attributes		<a href="https://www.ixl.com/math/grade-2/name-the-two-dimensional-shape">https://www.ixl.com/math/grade-2/name-the-two-dimensional-shape</a> , <a href="https://www.ixl.com/math/grade-2/select-two-dimensional-shapes">https://www.ixl.com/math/grade-2/select-two-dimensional-shapes</a> , <a href="https://www.ixl.com/math/grade-2/">https://www.ixl.com/math/grade-</a>

		<a href="#">2/count-sides-and-vertices</a>
Uses the understanding of fractions to partition shapes into halves, quarters, and thirds		<a href="https://www.ixl.com/math/grade-2/halves-thirds-and-fourths">https://www.ixl.com/math/grade-2/halves-thirds-and-fourths</a>
<b>2.4 Measurement, Data, and Probability</b>		
Measures and estimates lengths in standard units using appropriate tools		<a href="https://www.ixl.com/math/grade-2/measure-using-an-inch-ruler">https://www.ixl.com/math/grade-2/measure-using-an-inch-ruler</a> , <a href="https://www.ixl.com/math/grade-2/measure-using-a-centimeter-ruler">https://www.ixl.com/math/grade-2/measure-using-a-centimeter-ruler</a>
Tells and writes time to the nearest five minutes using both analog and digital clocks		<a href="https://www.ixl.com/math/grade-2/match-analog-clocks-and-times">https://www.ixl.com/math/grade-2/match-analog-clocks-and-times</a> , <a href="https://www.ixl.com/math/grade-2/match-analog-and-digital-clocks">https://www.ixl.com/math/grade-2/match-analog-and-digital-clocks</a> , <a href="https://www.ixl.com/math/grade-2/read-clocks-and-write-times">https://www.ixl.com/math/grade-2/read-clocks-and-write-times</a> , <a href="https://www.ixl.com/math/grade-2/am-or-pm">https://www.ixl.com/math/grade-2/am-or-pm</a>
Solves problems and makes change using coins and paper currency with appropriate symbols		<a href="https://www.ixl.com/math/grade-2/making-change">https://www.ixl.com/math/grade-2/making-change</a> , <a href="https://www.ixl.com/math/grade-2/count-money-pennies-nickels-and-dimes-only">https://www.ixl.com/math/grade-2/count-money-pennies-nickels-and-dimes-only</a> , <a href="https://www.ixl.com/math/grade-2/count-money-up-to-1-dollar">https://www.ixl.com/math/grade-2/count-money-up-to-1-dollar</a>
Represents and interprets data in line plots, bar graphs, and picture graphs		<a href="https://www.ixl.com/math/grade-2/interpret-bar-graphs">https://www.ixl.com/math/grade-2/interpret-bar-graphs</a> , <a href="https://www.ixl.com/math/grade-2/create-bar-graphs">https://www.ixl.com/math/grade-2/create-bar-graphs</a> , <a href="https://www.ixl.com/math/grade-2/interpret-line-plots">https://www.ixl.com/math/grade-2/interpret-line-plots</a> , <a href="https://www.ixl.com/math/grade-2/interpret-pictographs">https://www.ixl.com/math/grade-2/interpret-pictographs</a>
<b>Standards of Mathematical Practices</b>		

<p>Makes sense of problems and perseveres in solving them</p>	<p>Cubes Number Lines Counters Hundred Chart</p>	<p><a href="https://www.ixl.com/math/grade-2/addition-word-problems-up-to-two-digits">https://www.ixl.com/math/grade-2/addition-word-problems-up-to-two-digits</a> (addition word problems--2 digit), <a href="https://www.ixl.com/math/grade-2/addition-word-problems-one-digit">https://www.ixl.com/math/grade-2/addition-word-problems-one-digit</a> (addition word problems--1 digit), <a href="https://www.ixl.com/math/grade-2/subtraction-word-problems-up-to-18">https://www.ixl.com/math/grade-2/subtraction-word-problems-up-to-18</a> (subtraction word problems---1 digit), <a href="https://www.ixl.com/math/grade-2/subtraction-word-problems-up-to-two-digits">https://www.ixl.com/math/grade-2/subtraction-word-problems-up-to-two-digits</a> (subtraction word problems---2 digit)</p>
<p>Constructs viable arguments and critiques the reasoning of others</p>	<p>Number Line Hundred Chart</p>	<p><a href="https://www.ixl.com/math/grade-2/guess-the-number">https://www.ixl.com/math/grade-2/guess-the-number</a></p>
<p>Attends to precision</p>		

# New Foundations Charter School

## 5<sup>th</sup> Grade Math Kit

Standard	Manipulative	Online Resources- Handouts/Games/Videos/Inf ormation
<b>2.1 Numbers and Operations</b>	Dominoes Place Value Charts Hundredth Grids Grid Paper Dry Erase Packet Dry Erase Markers	<b>Ten Math Games to Play With Dominoes-</b> <a href="http://www.upperelementarysnapshots.com/2015/10/10-math-games-to-play-with-dominoes.html">http://www.upperelementarysnapshots.com/2015/10/10-math-games-to-play-with-dominoes.html</a> <b>Multiplication Blocks (online game)-</b> <a href="https://www.mathplayground.com/multiplication_blocks.html">https://www.mathplayground.com/multiplication_blocks.html</a> <b>Multiplication Chart-</b> (included) for students to practice multiplication facts
Applies place value concepts to show an understanding of multi-digit whole numbers. Place value worksheet is included with the kit.	Place Value Practice Boards	<a href="http://www.snappymaths.com/counting/placevalue/placevalue.htm">http://www.snappymaths.com/counting/placevalue/placevalue.htm</a>
Extends an understanding of operations with whole numbers to perform operations including decimals	Dry Erase Packet & Hundredths Grids- Use the dry erase packet to fill in hundredths grids to model operations with decimals (refer to EnVision Math Book for guidance) Dominoes- refer to link above	Decimal Math Games- <a href="http://www.math-play.com/decimal-math-games.html">http://www.math-play.com/decimal-math-games.html</a>
Uses the understanding of equivalency to add and subtract fractions	Dominoes- refer to link above	Fractions Board Game Online- <a href="http://www.math-play.com/fractions-board-game/fractions-board-game.html">http://www.math-play.com/fractions-board-game/fractions-board-game.html</a> Simplifying Fractions Game- <a href="http://www.math-play.com/simplifying-fractions-game/simplifying-fractions-game.html">http://www.math-play.com/simplifying-fractions-game/simplifying-fractions-game.html</a>
Applies and extends previous understandings of multiplication and division to multiply and divide fractions		Multiplying Fractions- <a href="http://www.mathplayground.com/fractions_mult.html">http://www.mathplayground.com/fractions_mult.html</a> Dividing Fractions- <a href="http://www.mathplayground.com">http://www.mathplayground.com</a>

		<a href="http://www.com/fractions_div.html">com/fractions_div.html</a>
<b>2.2 Algebraic Concepts</b>		Algebraic Concepts Vocabulary- <a href="http://www.learninggamesforkids.com/math_games/5th-grade-math/algebraic-terms-5th/algebra-hangmouse-5th.html">http://www.learninggamesforkids.com/math_games/5th-grade-math/algebraic-terms-5th/algebra-hangmouse-5th.html</a>
Interprets and evaluates numerical expressions using order of operations		Who Wants to Be a Millionaire- Writing Expressions- <a href="http://www.math-play.com/Algebraic-Expressions-Millionaire/algebraic-expressions-millionaire-game.html">http://www.math-play.com/Algebraic-Expressions-Millionaire/algebraic-expressions-millionaire-game.html</a> Evaluating Expressions Worksheets- <a href="http://www.math-aids.com/Algebra/Pre-Algebra/Expressions/">http://www.math-aids.com/Algebra/Pre-Algebra/Expressions/</a>
Analyzes patterns and relationships using two rules		Pattern Worksheets- <a href="http://www.dadsworksheets.com/worksheets/number-patterns.html">http://www.dadsworksheets.com/worksheets/number-patterns.html</a>
<b>2.3 Geometry</b>	Dry Erase Packet Dry Erase Markers Dominos	
Graphs points in the first quadrant on the coordinate plane and interprets these points when solving real world and mathematical problems	Dry Erase Packet- Put coordinate grid worksheet in packet. Have student use the dry erase marker to practice plotting points and identifying point location. Dominoes- refer to link above	Boat Coordinates- <a href="http://www.mathnook.com/math/boatcoordinates.html">http://www.mathnook.com/math/boatcoordinates.html</a>
Classifies two-dimensional figures into categories based on an understanding of their properties		Classifying Quadrilaterals- <a href="https://www.turtlediary.com/game/properties-of-quadrilaterals.html">https://www.turtlediary.com/game/properties-of-quadrilaterals.html</a>
<b>2.4 Measurement, Data, and Probability</b>	PSSA Formula Sheet	
Solves problems using conversions within a given measurement system	<b>Formula Sheet- Have students use formula sheet in order to assist them with worksheets</b>	<b>Vocabulary- <a href="http://www.mrnussbaum.com/soup/">mrnussbaum.com/soup/</a> Worksheets- <a href="http://www.k5learning.com">http://www.k5learning.com</a></b>

		<a href="http://www.math-aids.com/Graph/">m/free-math-worksheets/fifth-grade-5/measurement</a>
Represents and interprets data using appropriate scale		<b>Worksheets-</b> <a href="http://www.math-aids.com/Graph/">http://www.math-aids.com/Graph/</a>
Solves problems involving computation of fractions using information provided in a line plot		Line Plots- <a href="http://mrnussbaum.com/lpf/">http://mrnussbaum.com/lpf/</a> Line Plot Videos - <a href="https://learnzillion.com/lesson_plans/5766-solve-problems-by-interpreting-data-on-a-line-plot#lesson">https://learnzillion.com/lesson_plans/5766-solve-problems-by-interpreting-data-on-a-line-plot#lesson</a>  <a href="https://learnzillion.com/lesson_plans/4782-create-a-line-plot-with-fractions-of-a-unit-with-like-denominators">https://learnzillion.com/lesson_plans/4782-create-a-line-plot-with-fractions-of-a-unit-with-like-denominators</a>
<b>Standards of Mathematical Practices</b>	Problem Solving Skills Problem Solving Recording Sheet	More Information on Mathematical Practices- <a href="https://www.illustrativemathematics.org/practice-standards">https://www.illustrativemathematics.org/practice-standards</a> Real World Mathematical Problems- <a href="http://www.ode.state.or.us/search/page/?=281">http://www.ode.state.or.us/search/page/?=281</a>
Makes sense of problems and perseveres in solving them	Problem Solving Skills- Use steps in order to solve word problems Problem Solving Recording Sheet- Put worksheet in dry erase packet and have students use it to solve word problems	
Constructs viable arguments and critiques the reasoning of others		Filling Boxes- <a href="https://www.illustrativemathematics.org/static/practice_standards/MP3_Grade5_FillingBoxes.pdf">https://www.illustrativemathematics.org/static/practice_standards/MP3_Grade5_FillingBoxes.pdf</a>
Attends to precision		Filling Boxes- <a href="https://www.illustrativemathematics.org/static/practice_standards/MP3_Grade5_FillingBoxes.pdf">https://www.illustrativemathematics.org/static/practice_standards/MP3_Grade5_FillingBoxes.pdf</a>

# New Foundations Charter School

## 6<sup>th</sup> Grade Math Kit

Standard	Manipulative	Online Resources- Handouts/Games/Videos/Inf ormation
<b>2.1 Numbers and Operations</b>	Dry Erase Packet & Dry Erase Marker- Put worksheets in dry erase packet in order to use them more than once. Fraction Sheets	Fraction Sheet Manipulative Tool- <a href="http://www.mathplayground.com/Fraction_bars.html">http://www.mathplayground.com/Fraction_bars.html</a>
Understands ratio concepts and uses ratio reasoning to solve problems		Interactive Proportion Generator- <a href="http://www.mathplayground.com/visualpercent.html">http://www.mathplayground.com/visualpercent.html</a>
Applies and extends previous understandings of multiplication and division to divide fractions by fractions		Math Computation Practice: Dividing Fractions- <a href="http://www.mathplayground.com/fractions_div.html">http://www.mathplayground.com/fractions_div.html</a>
Computes fluently with multi-digit numbers and find common factors and multiples		Interactive Factor Tree Practice- <a href="http://www.mathplayground.com/factortrees.html">http://www.mathplayground.com/factortrees.html</a>
Develops and applies number theory concepts to find common factors and multiples		Math Activity: Greatest Common Factor Square Jumbo Puzzle Set - <a href="https://www.pinterest.com/pin/541980136377174732/">https://www.pinterest.com/pin/541980136377174732/</a>
Applies and extends previous understandings of numbers to the system of rational numbers		Matching Fractions, Decimals and Percents (Game)- <a href="http://www.mathplayground.com/Decention/Decention.html">http://www.mathplayground.com/Decention/Decention.html</a>
<b>2.2 Algebraic Concepts</b>	Algebra Tiles	
Applies and extends previous understandings of arithmetic to algebraic		Combining Like Terms: Lesson and Practice Examples-

expressions		<a href="https://www.khanacademy.org/math/algebra/introduction-to-algebra/alg1-manipulating-expressions/v/combining-like-terms">https://www.khanacademy.org/math/algebra/introduction-to-algebra/alg1-manipulating-expressions/v/combining-like-terms</a>
Understands the process of solving a one-variable equation or inequality and applies it to real-world and mathematical problems		Model and Solve Algebraic Equations- <a href="http://www.mathplayground.com/AlgebraEquations.html">http://www.mathplayground.com/AlgebraEquations.html</a>
Uses variables to represent two quantities in a real-world problem that change in relationship to one another		
<b>2.3 Geometry</b>		
Solves real-world and mathematical problems involving area, surface area, and volume		Area and Perimeter Party Planning Game- <a href="http://www.mathplayground.com/PartyDesigner/PartyDesigner.html">http://www.mathplayground.com/PartyDesigner/PartyDesigner.html</a>
<b>2.4 Measurement, Data, and Probability</b>		
Demonstrates an understanding of statistical variability by displaying, analyzing, and summarizing distributions		Combining Like Terms: Lesson and Practice Examples- <a href="https://www.khanacademy.org/math/probability/data-distributions-a1/box--whisker-plots-a1/v/constructing-a-box-and-whisker-plot">https://www.khanacademy.org/math/probability/data-distributions-a1/box--whisker-plots-a1/v/constructing-a-box-and-whisker-plot</a>  Graph Generator- <a href="https://nces.ed.gov/nceskids/createagraph/default.aspx?ID=a6e7bfca35a04c02b68fb04756b6a092">https://nces.ed.gov/nceskids/createagraph/default.aspx?ID=a6e7bfca35a04c02b68fb04756b6a092</a>

<p><b>Standards of Mathematical Practices</b></p>	<p>Problem Solving Skills Problem Solving Recording Sheet</p>	<p>More Information on Mathematical Practices-  <a href="https://www.illustrativemathematics.org/practice-standards">https://www.illustrativemathematics.org/practice-standards</a>  Real World Mathematical Problems-  <a href="http://www.ode.state.or.us/search/page/?=281">http://www.ode.state.or.us/search/page/?=281</a></p>
<p>Makes sense of problems and perseveres in solving them.</p>	<p><a href="https://www.kutasoftware.com/fr eeipa.html">https://www.kutasoftware.com/fr eeipa.html</a></p>	
<p>Reasons abstractly and quantitatively.</p>	<p><a href="https://www.kutasoftware.com/fr eeipa.html">https://www.kutasoftware.com/fr eeipa.html</a></p>	
<p>Attends to precision.</p>	<p><a href="https://www.kutasoftware.com/fr eeipa.html">https://www.kutasoftware.com/fr eeipa.html</a></p>	
<p>Looks for and makes use of structure.</p>	<p><a href="https://www.kutasoftware.com/fr eeipa.html">https://www.kutasoftware.com/fr eeipa.html</a></p>	

# New Foundations Charter School

## 7<sup>th</sup> Grade Math Kit

Standard	Manipulative	Online Resources- Handouts/Games/Videos/Inf ormation
<b>2.1 Numbers and Operations</b>		
Analyzes proportional relationships and uses them to solve real-world and mathematical problems	<a href="http://www.mathplayground.com/visualpercent.html">http://www.mathplayground.com/visualpercent.html</a>	<a href="https://www.khanacademy.org/math/pre-algebra/pre-algebra-ratios-rates/pre-algebra-write-and-solve-proportions/v/find-an-unknown-in-a-proportion">https://www.khanacademy.org/math/pre-algebra/pre-algebra-ratios-rates/pre-algebra-write-and-solve-proportions/v/find-an-unknown-in-a-proportion</a>
Applies and extends previous understandings of operations with fractions to operations with rational numbers	<a href="http://www.lumoslearning.com/llwp/resources/homework-help-for-grade-3-to-8-math-and-english-language-arts/practice-test.html?btn=start&amp;cur=557&amp;id=7684">http://www.lumoslearning.com/llwp/resources/homework-help-for-grade-3-to-8-math-and-english-language-arts/practice-test.html?btn=start&amp;cur=557&amp;id=7684</a>	<a href="https://www.khanacademy.org/math/cc-seventh-grade-math/cc-7th-fractions-decimals/cc-7th-add-sub-rational-numbers/v/comparing-rational-numbers">https://www.khanacademy.org/math/cc-seventh-grade-math/cc-7th-fractions-decimals/cc-7th-add-sub-rational-numbers/v/comparing-rational-numbers</a>
<b>2.2 Algebraic Concepts</b>		
Applies properties of operations to generate equivalent expressions	<a href="http://www.mathplayground.com/AlgebraEquations.html">http://www.mathplayground.com/AlgebraEquations.html</a>	<a href="https://www.khanacademy.org/math/in-seventh-grade-math/algebraic-expressions/like-unlike-addition-subtraction/v/equivalent-forms-of-expressions-1">https://www.khanacademy.org/math/in-seventh-grade-math/algebraic-expressions/like-unlike-addition-subtraction/v/equivalent-forms-of-expressions-1</a>
Solves real-world and mathematical problems using numerical, algebraic, and graphical representations	<a href="http://www.hand2mind.com/item/xy-coordinate-pegboard-classroom-basics-kit-set-of-30/2767">http://www.hand2mind.com/item/xy-coordinate-pegboard-classroom-basics-kit-set-of-30/2767</a>	<a href="https://www.khanacademy.org/math/algebra-home/alg-basic-eq-ineq/alg-two-steps-equations-intro/v/solving-equations-1">https://www.khanacademy.org/math/algebra-home/alg-basic-eq-ineq/alg-two-steps-equations-intro/v/solving-equations-1</a>

<b>2.3 Geometry</b>	<b>X-Y Coordinate Plane Dry Erase Boards Pattern Blocks</b>	
Solves real-world and mathematical problems involving angle measure, area, surface area, circumference, and volume	<a href="http://www.mathplayground.com/geometry_quiz.html">http://www.mathplayground.com/geometry_quiz.html</a>	<a href="https://www.khanacademy.org/math/basic-geo/basic-geo-angle/angle-intro/v/angle-basics">https://www.khanacademy.org/math/basic-geo/basic-geo-angle/angle-intro/v/angle-basics</a>
Visualizes and represents geometric figures and describes the relationships between them	<a href="http://www.lumoslearning.com/llwp/resources/homework-help-for-grade-3-to-8-math-and-english-language-arts/practice-test.html?btn=start&amp;cur=557&amp;id=7667">http://www.lumoslearning.com/llwp/resources/homework-help-for-grade-3-to-8-math-and-english-language-arts/practice-test.html?btn=start&amp;cur=557&amp;id=7667</a>	<a href="https://www.khanacademy.org/math/algebra-basics/alg-basics-equations-and-geometry/alg-basics-intro-to-triangle-similarity/v/similar-triangle-basics">https://www.khanacademy.org/math/algebra-basics/alg-basics-equations-and-geometry/alg-basics-intro-to-triangle-similarity/v/similar-triangle-basics</a>
<b>2.4 Measurement, Data, and Probability</b>		
Uses random sampling to draw inferences about a population	<a href="http://www.shodor.org/interactivate/activities/AdjustableSpinner/">http://www.shodor.org/interactivate/activities/AdjustableSpinner/</a>	<a href="https://www.khanacademy.org/math/probability/study-design-a1/samples-surveys/v/reasonable-samples">https://www.khanacademy.org/math/probability/study-design-a1/samples-surveys/v/reasonable-samples</a>
Makes comparative inferences about two populations	<a href="http://www.lumoslearning.com/llwp/resources/homework-help-for-grade-3-to-8-math-and-english-language-arts/practice-test.html?btn=start&amp;cur=557&amp;id=7677">http://www.lumoslearning.com/llwp/resources/homework-help-for-grade-3-to-8-math-and-english-language-arts/practice-test.html?btn=start&amp;cur=557&amp;id=7677</a>	<a href="https://www.khanacademy.org/math/probability/probability-geometry/multiplication-rule-independent-events/v/compound-probability-of-independent-events">https://www.khanacademy.org/math/probability/probability-geometry/multiplication-rule-independent-events/v/compound-probability-of-independent-events</a>
Investigates chance processes and develop, use, and evaluate probability models	<a href="http://www.mathplayground.com/probability.html">http://www.mathplayground.com/probability.html</a>	<a href="https://www.khanacademy.org/math/probability/data-distributions-a1/box--whisker-plots-a1/v/constructing-a-box-and-whisker-plot">https://www.khanacademy.org/math/probability/data-distributions-a1/box--whisker-plots-a1/v/constructing-a-box-and-whisker-plot</a>

<b>Standards of Mathematical Practices</b>	Index Cards	
Makes sense of problems and perseveres in solving them	<a href="https://www.kutasoftware.com/freeipa.html">https://www.kutasoftware.com/freeipa.html</a>	
Reasons abstractly and quantitatively	<a href="https://www.kutasoftware.com/freeipa.html">https://www.kutasoftware.com/freeipa.html</a>	
Attends to precision	<a href="https://www.kutasoftware.com/freeipa.html">https://www.kutasoftware.com/freeipa.html</a>	
Looks for and makes use of structure	<a href="https://www.kutasoftware.com/freeipa.html">https://www.kutasoftware.com/freeipa.html</a>	

# New Foundations Charter School

## 8<sup>th</sup> Grade Math Kit

Standard	Manipulative	Online Resources- Handouts/Games/Videos/Inf ormation
<b>2.1 Numbers and Operations</b>		
Distinguishes between rational and irrational numbers using their properties		<a href="https://www.khanacademy.org/math/algebra/rational-and-irrational-numbers/alg-1-irrational-numbers/v/introduction-to-rational-and-irrational-numbers">https://www.khanacademy.org/math/algebra/rational-and-irrational-numbers/alg-1-irrational-numbers/v/introduction-to-rational-and-irrational-numbers</a>
Estimates irrational numbers by comparing them to rational numbers		<a href="https://www.khanacademy.org/math/cc-eighth-grade-math/cc-8th-numbers-operations/cc-8th-approximating-irrational-numbers/v/approximating-square-roots-2">https://www.khanacademy.org/math/cc-eighth-grade-math/cc-8th-numbers-operations/cc-8th-approximating-irrational-numbers/v/approximating-square-roots-2</a>
<b>2.2 Algebraic Concepts</b>		
Applies concepts of roots and integer exponents to generate equivalent expressions		<a href="https://www.khanacademy.org/math/algebra/rational-exponents-and-radicals">https://www.khanacademy.org/math/algebra/rational-exponents-and-radicals</a>
Understands the connections between proportional relationships, lines, and linear equations	<b>X and Y Axis- Dry Erase Mats</b>	<a href="https://www.khanacademy.org/math/algebra-home/alg-basic-eq-ineq">https://www.khanacademy.org/math/algebra-home/alg-basic-eq-ineq</a>
Analyzes and solves linear equations and pairs of simultaneous linear equations		<a href="https://www.khanacademy.org/math/8th-engage-ny/engage-8th-module-4/8th-module-4-topic-d/v/trolls-tolls-and-systems-of-equations">https://www.khanacademy.org/math/8th-engage-ny/engage-8th-module-4/8th-module-4-topic-d/v/trolls-tolls-and-systems-of-equations</a>
Defines, evaluates, and compares functions		<a href="https://www.khanacademy.org/math/algebra/algebra-">https://www.khanacademy.org/math/algebra/algebra-</a>

		<a href="#">functions</a>
Uses functions to model relationships between quantities		<a href="https://www.khanacademy.org/math/algebra/algebra-functions">https://www.khanacademy.org/math/algebra/algebra-functions</a>
<b>2.3 Geometry</b>	<b>X-Y Coordinate Plane Dry Erase Boards Pattern Blocks</b>	
Solves real-world and mathematical problems involving volume of cylinders, cones, and spheres		<a href="https://www.khanacademy.org/math/geometry-home/geometry-volume-surface-area/geometry-volume-cones/e/volumes-of-cones--cylinders--and-spheres">https://www.khanacademy.org/math/geometry-home/geometry-volume-surface-area/geometry-volume-cones/e/volumes-of-cones--cylinders--and-spheres</a>
Understands and applies congruence, similarity, and geometric transformations using various tools	<b>Graph Paper</b>	<a href="https://www.khanacademy.org/math/geometry/hs-geo-similarity">https://www.khanacademy.org/math/geometry/hs-geo-similarity</a>
Understands and applies the Pythagorean Theorem		<a href="https://www.khanacademy.org/math/basic-geo/basic-geometry-pythagorean-theorem">https://www.khanacademy.org/math/basic-geo/basic-geometry-pythagorean-theorem</a>
<b>2.4 Measurement, Data, and Probability</b>		
Analyzes and interprets data with two variables displayed in multiple representations		
Uses frequencies to find patterns of association in data with two variables	<b>Spinners</b>	<a href="https://www.khanacademy.org/math/probability/two-way-tables-categorical-data-a1/two-way-relative-frequency-tables/v/two-way-relative-frequency-tables">https://www.khanacademy.org/math/probability/two-way-tables-categorical-data-a1/two-way-relative-frequency-tables/v/two-way-relative-frequency-tables</a>

<b>Standards of Mathematical Practices</b>	<b>Index Cards</b>	
Makes sense of problems and perseveres in solving them		
Reasons abstractly and quantitatively		
Attends to precision		
Looks for and makes use of structure		