

# Division 1

	Kindergarten	Grade 1	Grade 2	Grade 3
<p><b>Essential Foundations:</b> What 3-4 essential foundations will your grade double down on all year long? What will set them up for success next year and for years to come?</p>	<ul style="list-style-type: none"> <li>- Part - part whole number relationships (For example 2 and 3 makes 5, 4 and 1 makes 5, and 0 and 5 makes 5)</li> <li>- Number representations (to 10)</li> <li>- One-to-one correspondence (to 10)</li> <li>- Identify, create, and extend repeating patterns</li> </ul>	<ul style="list-style-type: none"> <li>➤ Place value- tens and ones</li> <li>➤ Basic addition and subtraction facts</li> <li>➤ Number patterns (skip counting)</li> <li>➤ Identifying numbers to 100 (1 more/ 1 less)</li> </ul>	<ul style="list-style-type: none"> <li>➤ Place value for numerals to 1000</li> <li>➤ Personal strategies for addition and subtraction up to 100</li> <li>➤ Analyze data to solve problems</li> <li>➤ Build <a href="#">math vocabulary</a></li> </ul>	<ul style="list-style-type: none"> <li>● <b>Place value for numerals to 100,000 tied into patterns</b></li> <li>● Mental Math (fluency with comprehension) tied into patterns</li> <li>● Data Analysis tied into patterns</li> <li>● <a href="#">VOCABULARY</a></li> </ul>
<p><b>Wish List:</b> What 3-4 essential foundations do you want students coming to you already knowing?</p>	<ul style="list-style-type: none"> <li>- Exposure to numbers 1-10</li> <li>- Counting objects in their natural environment</li> <li>- Making sets of objects up to 5</li> </ul>	<ul style="list-style-type: none"> <li>➤ Identify and represent numbers 1 to 10 (extending to 20 for those who are ready)</li> <li>➤ Identify, create, and extend repeating patterns (understanding that a pattern is something that repeats)</li> <li>➤ Math vocabulary when comparing numbers (less/more/forward/backward)</li> </ul>	<ul style="list-style-type: none"> <li>➤ Recall basic facts up to 10</li> <li>➤ Concretely and pictorially represent numbers</li> <li>➤ 1 more/1 less</li> <li>➤ Fact families, skip counting</li> </ul>	<ul style="list-style-type: none"> <li>● Understanding of Place Value</li> <li>● Basic Facts strategies (doubles/make 10)</li> <li>● Skip Counting from various starting points /Patterns</li> <li>● Vocabulary</li> <li>● Subtraction</li> </ul>
<p><b>Resources - Please use this to link resources that you use or would recommend. (optional)</b></p>	<p><a href="#">Link to resource document</a></p>			

## Division 2

	Grade 4	Grade 5	Grade 6
<p><b>Essential Foundations:</b>What 3-4 essential foundations will your grade double down on all year long? What will set them up for success next year and for years to come?</p>	<ul style="list-style-type: none"> <li>→ Understanding of Place Value (up to 10 000)</li> <li>→ Strong understanding of basic facts               <ul style="list-style-type: none"> <li>◆ Fact families</li> <li>◆ Understand what addition, subtraction multiplication and division mean/are/represent</li> </ul> </li> <li>→ Understanding regrouping and borrowing</li> <li>→ Understanding a fraction is a part of a whole or a set               <ul style="list-style-type: none"> <li>◆ Represents concretely and pictorially a fraction accurately</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>- Multiplication/division fluency basic facts to 10 (facts and understanding of what multiplication and division ARE and that they are inverse operations)</li> <li>- Subtraction and addition from the millions to the thousandths place with regrouping and borrowing with emphasis on the 3 forms of place value</li> <li>- Multidigit (2-digit by 1-digit) addition and long division (3-digit by 1-digit)</li> <li>- Equivalent Fractions and relation to decimals</li> </ul>	<ul style="list-style-type: none"> <li>- Place Value (decimal)</li> <li>- Fractions (relating ratio, decimal, percent, improper, mixed, equivalent)</li> <li>- Multiples and Factors (LCM, GCF)</li> <li>- multiplication and division of decimals</li> <li>- Order of operations</li> </ul>
<p><b>Wish List:</b> What 3-4 essential foundations do you want students coming to you already knowing?</p>	<ul style="list-style-type: none"> <li>→ Strong understanding of basic facts (all number operations)</li> <li>→ Data Analysis</li> <li>→ Skip counting (to help with multiplication and division)</li> </ul>	<ul style="list-style-type: none"> <li>- What is addition, subtraction, multiplication and division - how are they related (inverse operations) and correct terminology (addend, sum, etc.)</li> <li>- Understanding of decimals (the value gets progressively smaller)</li> <li>- Number sense with fractions: pushing fractions beyond “how many are red out of 8?” and moving from a surface level of understanding to a deeper understanding</li> <li>- 3 forms of place value - double down on correct word form (<u>and</u> represents a decimal)</li> <li>- Teach CUBES as a word problem strategy</li> </ul>	<ul style="list-style-type: none"> <li>- Basic facts (including skip counting, add/sub, long division!!)</li> <li>- Problem Solving</li> <li>- Place Value</li> <li>- Math vocabulary (eg. numerator, denominator, sum, product, horizontal, vertical, etc.)</li> </ul>
<p><b>Resources - Please use this to link resources that you use or would recommend. (optional)</b></p>	<p><a href="#">Link to document</a></p>		

# Division 3

<a href="#">Math 7/8/9 Essential Vocab</a>	Grade 7	Grade 8	Grade 9
<p><b>Essential Foundations:</b> What 3-4 essential foundations will your grade double down on all year long? What will set them up for success next year and for years to come?</p>	<p>Adding and subtracting fractions - LCD</p> <p>Adding and subtracting integers</p> <p>Solving Equations</p> <ul style="list-style-type: none"> <li>conceptually understanding the why behind the algebraic steps</li> </ul> <p>Decimals - Fractions - Percents</p> <p>Decimal operations</p>	<p>Order of operations</p> <ul style="list-style-type: none"> <li>Fractions</li> <li>Integers</li> </ul> <p>Fraction division</p> <ul style="list-style-type: none"> <li>multiply by the reciprocal</li> </ul> <p>Understanding the why for steps in solving equations</p> <p>Square Roots and Squares</p> <ul style="list-style-type: none"> <li>Understanding perfect squares and non-perfect</li> <li>Understanding the operation of square root</li> </ul>	<p>Order of operations</p> <ul style="list-style-type: none"> <li>Working with rationals (fractions, negatives)</li> </ul> <p>Operations with Polynomials</p> <p>Exponent Laws</p> <p>Algebraically solving equations</p>
<p><b>Strategies to incorporate Essential Foundations throughout the year...</b></p>	<ul style="list-style-type: none"> <li>Retrieval questions on summative unit exams</li> <li>Use of vocabulary through the year</li> <li>Do Nows, Exit slips, Challenge questions, Retrieval stations (at least once a week on noncurrent units)</li> </ul>		
<p><b>Wish List:</b> What 3-4 essential foundations do you want students coming to you already knowing?</p>	<p>Understanding factors</p> <ul style="list-style-type: none"> <li>To be able to get common denominators for fractions, reducing and simplifying</li> <li>Knowing basic facts up to 12 x 12 to help determine common factors</li> </ul> <p>Understanding multiplication and division of decimal</p> <p>Fractions</p> <ul style="list-style-type: none"> <li>improper and mixed number, equivalent</li> <li>Representing in multiple ways (estimate / awareness of the fraction without being given the item split into all sections)</li> </ul>	<p>Adding and subtracting fractions - LCD</p> <p>Adding and subtracting integers</p> <p>Knowing factors</p> <p>Algebraic solving of equations</p>	<p>Order of operations</p> <ul style="list-style-type: none"> <li>Fractions</li> <li>Integers</li> </ul> <p>Algebraic solving equations</p> <p>Square Roots and Squares</p> <ul style="list-style-type: none"> <li>Understanding perfect squares and non-perfect</li> <li>Understanding the operation of square root</li> </ul>
<p><b>Resources - Please use this to link resources that you use or would recommend. (optional)</b></p>	<p><a href="#">Math Resource Links - 7/8/9/</a></p>		