



Recommended P1 / Grade 1 Curriculum Framework

<b>Content: MATHEMATICS – P1 / Grade 1</b>						
<b>Topic: Computation / Algebraic Ideas (Weeks 26-29): Addition (Weeks 26-27); Subtraction (Weeks 28-29)</b>						
<b>Content</b> (What do your students need to KNOW?)	<b>Demonstrators</b> (What do your students need to be able to DO?)	<b>Assessment</b> (How will you assess what your students ALREADY KNOW, and assess WHAT THEY'VE LEARNED?)	<b>Activities</b> (HOW will you teach it?)	<b>Resources</b> (What MATERIALS will you need?)	<b>Differentiation</b> (How will you reach the DIVERSITY of learners?)	<b>Literacy Connection</b> (How will you use READING and WRITING with this material?)
<p><b>CONCEPTS-Students will describe properties of, define, give examples of, and apply to both real-world and mathematical situations:</b></p> <p><b>MA-E-1.1.2</b> The operations of addition, subtraction, multiplication and division</p>	<p><b>AE 2.8</b> Students understand various mathematical procedures and use them appropriately and accurately.</p> <p><b>AE 2.11</b> Students understand mathematical change concepts and use them appropriately and accurately.</p> <p><b>POS-M-P-NC-31</b> Students will understand addition and develop concept of subtraction using concrete materials.</p> <p><b>POS-M-P-NC-33</b> Students will understand concepts of subtraction.</p> <p><b>CA</b> Students will manipulate objects to solve one-step problems (addition and subtraction).</p> <p><b>CA</b> Students will explore addition and subtraction facts to 18.</p>					

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<p><b>MA-E-1.1.5</b> Multiple representations of numbers (e.g., drawings, manipulative, symbols)</p> <p><b>MA-E-4.1.1</b> Functions (input-output) through pictures, tables, and words</p> <p><b>MA-E-4.1.2</b> Number sentences with a missing value or variable</p>	<p><b>POS-M-P-NC-36</b> Students will explore addition and subtraction of 2-digit numbers using manipulatives (CA-no regrouping).</p> <p><b>POS-M-P-NC-34</b> Students will explore the concepts of multiplication and division using physical models.</p> <p><b>POS-M-P-NC-35</b> Students will develop part-part-whole relationships using numbers (e.g., <math>3 + 2 = 5</math>, <math>1 + 4 = 5</math>).</p> <p><b>CA</b> Students will explore the inverse operations of addition and subtraction (fact families).</p> <p><b>POS-M-P-A-9</b> Students will explore input-output machines (e.g., function machines).</p> <p><b>POS-M-P-A-7</b> Students will solve simple equations (e.g., <math>1 + 1 = \underline{\quad}</math>).</p> <p><b>POS-M-P-A-8</b> Students will solve simple equations (e.g., <math>\underline{\quad} - 2 = 7</math>).</p>					

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<p><b>SKILLS-Students will perform mathematical operations and procedures accurately and efficiently, explain how the skills work in real-world or mathematical situations, and are able to:</b>  <b>MA-E-1.2.2</b> Add, subtract whole numbers using a variety of methods (e.g., mental, paper and pencil, calculator)   <b>MA-E-1.2.6</b> Estimate computational results using an appropriate strategy   <b>MA-E.4.2.3</b> Find solutions to number sentences with a missing value (e.g., <math>7 + N = 10</math>)</p>	<p><b>CA</b> Students will explore adding with three addends.   <b>CA</b> Students will explore missing addends.   <b>CA</b> Students will explore calculators.   <b>CA</b> Students will explore giving reasonable answers.</p>					

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<p><b>RELATIONSHIPS-Students will make connections between concepts and skills, show how connections are made, explain why procedures work, and/or make generalizations about mathematics by showing:</b> <b>MA-E-1.3.2</b> How properties (commutative, associative, identity properties of addition) are used in computation</p>	<p><b>CA</b> Students will understand the basic concept of the commutative property (<math>6 + 4 = 4 + 6</math>).</p> <p><b>CA</b> Students will understand the basic concept of properties of 0 for addition (<math>5 + 0 = 5</math>) and subtraction (<math>5 - 0 = 5</math>).</p> <p><b>CA</b> Students will explore math vocabulary (e.g., plus, add, find the sum).</p>					