ST. LOUIS PUBLIC SCHOOLS



## Language Companion to the DESE Math Model Curriculum, Grade 1

Developed as part of Saint Louis Public Schools "Math Success for ELLs" grant, a partnership between Webster University, Magic House, and Saint Louis Public Schools ESOL Program, funded by the US department of Education

Grade	e 1- Addition	and Subtract	ion Problem S	Solving	
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Essential Measurable Learning Objectives	Language Objective	Sentence Frame
Students will apply the meaning of the equal sign to determine if the equations are true or false.	Students will orally explain equality on both sides of the equal sign using the logical connector <i>because</i> .	is/is not equal to because
Students will use symbolic algebra; determine the unknown whole number in an addition or subtraction equation relating to three whole numbers.	Students will label sample equations using target noun vocabulary: <i>commutative</i> <i>property, fact family,</i> <i>combination, total, difference,</i> <i>and addend.</i>	
Students will interpret the story and determine the operation and strategy needed to solve the problem.	Students will explain orally the strategy used to determine the operation and solution of a problem using the key words: altogether, in all, sum, combine, add, making tens, counting on, counting all, counting back, and estimation.	I chose to solve this problem because
Students will represent/model a given situation involving addition and subtraction of whole numbers using pictures, objects, or symbols.	Students will label a visual representation of a word problem using technical math vocabulary: <i>making tens,</i> <i>counting on, counting all,</i> <i>counting back, and estimation.</i>	

Essential Measurable Learning Objectives	Language Objective	Sentence Frame
Students will add and subtract by adding and subtracting by one and two in the counting sequence.	Students will explain orally to a partner in complete sentences how to add and subtract by counting on and counting back with cubes or a number line.	To add, I need to count on from         (the given number).         To subtract, I need to count back from         (the given number).
Students will add and subtract within 20 by using equal but easier numbers (e.g. Making ten, using doubles, using doubles plus and minus one and using the relationship between addition and subtraction).	Students will explain orally the addition/subtraction strategy: <i>making tens, doubles, or doubles plus and minus one</i> in a complete sentence.	When I added+, I used the strategy. If+=, then +=
Students will explain how addition and subtraction are related.	Students will use the part/part whole model to write <i>ifthen</i> statements using key vocabulary: <i>plus, equals,</i> <i>and minus</i> .	<i>If</i> plus equals, <i>then</i> minus equals
Students will identify the unknown number in an addition and subtraction problem.	Students will explain to a partner on how to identify the unknown number in an addition and subtraction problem using key vocabulary: <i>part, whole, counting</i> <i>up, counting down.</i>	$8 + \square = 10$ . I know 10 is the whole and 8 is a part. I will find the missing part by ( <i>strategy</i> ).

Grade 1– Addition and Subtraction to 20

Grade 1- Place	Value and Operations
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Essential Measurable Learning Objectives	Language Objective	Sentence Frame
Students will add within 100	Students will label the	
using concrete models or	drawings and equation using	
drawings to show a strategy	target math vocabulary: ones,	
based on place value	tens, digits, numbers, symbols,	
(collecting the tens, collecting	equals.	
the ones, and if necessary,		
composing ten ones to make a		
ten) or other strategies.		
Students will mentally find 10	Students will listen to and	
more for any two- digit	record sum or difference.	
number (e.g.,32+10=42) and		
mentally find 10 less for any		
two- digit number(e.g.,32-		
10=22).		
Students will subtract a	Students will write a cloze	minus 10 equals
multiple of 10 from a multiple	explanation of the strategy	because
of 10 (e.g., subtract 90-40)	using target math vocabulary: <i>add, subtract, place value,</i>	
and explain the strategy used.	compose, decompose, multiple	
	of 10.	

Essential Measurable Learning Objectives	Language Objective	Sentence Frame
Student will count to 120, starting with any number less than 120. Students will read and write numerals to 120.	Students will orally describe the strategy they used to count up to 120. Students will listen to a partner dictate a number up to 120 and then record the number.	I will start with and stop at 120 by counting on:,,
Students will represent a number of objects with a written numeral up to 120.	Students will write the quantity of objects in a set in a complete sentence.	There are(number)(objects).
Students will represent ten as a bundle called a "ten."	Students will explain how a group of ten ones is equal to one ten. The students will share using the target vocabulary ( <i>equal to, same as, tens,</i> <i>and ones</i> ).	ones are equal to ten(s).
Students will compose and decompose numbers 11- 19.	Students will explain the place value of the numbers 11-19 by writing a complete sentence and drawing a place value model.	is equal to tens and ones.
Students will represent multiple sets of ten using number names (2 tens is 20).	Students will state multiple sets of tens using the target vocabulary: <i>ten</i> , <i>twenty</i> , <i>thirtyninety</i> .	tens is equal to
Students will explain the value of each digit in a two-digit number.	Students will express the value of a number with a partner using complete sentences.	The value of istens which equals and ones which equals <i>Example: The value of 47 is 4 tens which equal 40 and 7ones which equal 7.</i>

Grade 1– Understanding Place Value

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Essential Measurable Learning Objectives	Language Objective	Sentence Frame
Students will compare two two-digit numbers and record the results with the symbols >, =, and <.	Students will read the number sentence orally using comparative adjectives in place of the math symbols: (greater than, less than, or equal to).	is greater than is less than is equal to
Students will explain why a two-digit number is greater than, less than, or equal to another two- digit number.	Students will justify their reasoning orally using place value vocabulary ( <i>tens, ones, value</i> ) in a complete sentence.	<pre> is greater than I know this because has more tens/ones than is less than I know this because has less tens/ones than is equal to I know this because they have the same value.</pre>

## Grade 1 – Geometry

Essential Measurable	Language Objective	Sentence Frame
Learning Objectives		
Students will explain the difference between defining attributes and non-defining attributes of shapes.	Students will list defining attributes and non-defining attributes of shapes using the target vocabulary: <i>sides, angles,</i> <i>closed, lines, color and size.</i>	I know this shape is a, because the attributes are, and not because it is <i>Example: I know this shape is a</i> <i>triangle, because the attributes are</i> <i>three sides and three angles, and not</i> <i>because it is blue.</i>
Students will construct and draw shapes when given defining attributes.	Students will apply the target vocabulary ( <i>sides, angles, closed,</i> <i>lines, color and size</i> ) by listening to a description of a shape and drawing it.	
Student will identify two-dimensional shapes (rectangles, squares, trapezoids, triangles, half-circles, and quarter-circles) and three-dimensional shapes (cubes, right rectangular prisms, right circular cones, and right circular cylinders) shapes.	Students will label 2 and 3D shapes using target vocabulary.	
Students will create new shapes using two-	Students will describe orally and in writing the parts of the new shape.	This is a It is made of

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dimensional and/or three- dimensional shapes.		Example: This is a house. It is made of a square and triangle.
Essential Measurable Learning Objectives	Language Objective	Sentence Frame
Students will partition circles, squares, and rectangles into two and four equal parts.	Students will describe orally and in writing how the shapes have been divided using target vocabulary: <i>equal, circles,</i> <i>squares, rectangles, same as.</i>	This has equal parts         because each part is the same size.         Example: This circle has two equal         parts because each part is the same         size.
Students will describe the equal parts of a circle, square and rectangle with the words halves, fourth, and quarters.	Students will label equal parts of the shapes using the target vocabulary: <i>halves, fourth, and</i> <i>quarters</i> .	
Students will describe the whole by the number of equal parts.	Students will describe in writing the relationship between equal parts and a whole using <i>ifthen</i> sentence.	If I have out of equal parts, then I have one whole.
Students will explain the more parts in a given shape, the smaller the parts.	Students will describe orally the size of the parts in a given shape using comparative adjectives ( <i>larger than, more, less, smaller</i> <i>than.</i> )	<i>Example: I can see that one fourth of the circle is less than one half of the circle.</i>