



SUBJECT AREA	EC MATH			
STANDARDS DOCUMENT(S)	Aprendizajes Clave para la Educación Integral	Aprendizajes Sustantivos para la Vida	Aprendizajes Sustantivos con Niveles	Common Core Math Standards
OTHER DOCUMENTS	EC eLearning Scope and Sequence by Grade Level	Scope and Sequence of EC Mid-Year Assessments	Arizona Early Learning Standards	

CONTEXT	The Aprendizajes Clave/Sustantivos were created for native Spanish speakers, and the Common Core Kinder Standards were created for native English speakers. The vast majority of our EC students are native Spanish speakers learning English who have an extra year of elementary (P1) in which to develop some of the preschool skills outlined in both those documents. For that reason, it's not enough to translate the Aprendizajes Claves or Sustantivos into English and use those, or to use the Common Core Kinder standards. Instead, we need to modify and adjust the expectations in both those documents to fit this specific and unique situation, while also accounting for those students who are advanced or native speakers of English and for students who speak neither Spanish nor English. In addition, for some learning standards, students are expected to express themselves in English, but for other standards the focus is on higher order thinking skills so students can express themselves in their language of choice, and teachers model how to say it using English and encourage students to repeat it when appropriate.
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CATEGORY 1: COUNTING AND CARDINALITY				
STRANDS	NURSERY	PRE-KINDER	KINDER	ADVANCED LEARNING GOALS (Common Core Kinder Standards & Aprendizajes Sustantivos)
Knows number names and the count sequence	Counts out loud to 5 in English and to 10 in Spanish.	Counts to 12 in English and Spanish.	Counts out loud to 20 in English and Spanish.	Counts to 100 by ones and by tens. CCSS.MATH.CONTENT.K.CC.A.1 Counts forward beginning from a given number within the known sequence (instead of having to begin at 1). CCSS.MATH.CONTENT.K.CC.A.2
	Identifies numerals 1 to 5 .	Identifies numerals 1 to 12 .	Identifies numerals 1 to 20 .	---
	Uses and creates symbols to represent numbers.	Represents a number of objects with a written numeral 0-10 (with 0 representing a count of no objects). CCSS.MATH.CONTENT.K.CC.A.3	Writes a numeral that corresponds to a given quantity (0-10).	Writes numbers from 0 to 20 . CCSS.MATH.CONTENT.K.CC.A.3 Represents a number of objects with a written numeral 0-20 (with 0 representing a count of no objects). CCSS.MATH.CONTENT.K.CC.A.3
Counts to tell the number of objects	Counts groups of objects up to 5 using one-to-one correspondence (one object for each number word) using the last counting word to tell "How many?".	Counts groups of objects up to 10 using one-to-one correspondence using the last counting word to answer, "How many?".	Counts a collection of up to 20 items using one-to-one correspondence using the last counting word to tell, "How many?".	---
	---	Matches numerals (1-12) to quantities they represent using physical models and representations.	Matches numerals (1-20) to quantities they represent using physical models and representations.	---
Compares Numbers	---	---	Identifies whether the number of objects (1-20) in one group is more than, less than, or equal to the number of objects in another group, e.g., by using matching and counting strategies. CCSS.MATH.CONTENT.K.CC.C.6	---

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CATEGORY 2: OPERATIONS AND ALGEBRAIC THINKING				
STRANDS	NURSERY	PRE-KINDER	KINDER	ADVANCED LEARNING GOALS (Common Core Kinder Standards & Aprendizajes Sustantivos)
ADDITION Understands addition as putting together and adding to.	Recognizes there are more when objects are added to a set.	Combines two or more sets of objects and counts the total amount.	Solves addition word problems, and adds within 10 . CCSS.MATH.CONTENT.K.OA.A.2	---
PATTERNS: Recognizes, copies, extends, describes and creates patterns	Extends patterns with two attributes .	Extends patterns of three attributes.	Creates patterns of three attributes	CCSS: Common Core does not have Kinder standards related to Patterning

CATEGORY 4: MEASUREMENT & DATA				
STRANDS	NURSERY	PRE-KINDER	KINDER	ADVANCED LEARNING GOALS (Common Core Kinder Standards & Aprendizajes Sustantivos)
MEASUREMENT: Uses measurement to describe and compare objects in the environment	Understands tall and short .	Orders objects by measurable attributes.	Directly compares two objects with a measurable attribute in common, to see which object has "more of"/"less of" the attribute, and describe the difference (e.g. directly compare the heights of two children and describe one child as taller/shorter). CCSS.MATH.CONTENT.K.MD.A.2	
SORTING & GROUPING: Sorts and groups objects by a variety of characteristics/ attributes.	Sorts items by similar characteristics.	Sorts and classifies objects by one or more attributes (e.g., size, color, shape, texture, use).	Explains rationale behind sorting a certain way.	---
DATA: Collects, organizes, displays, and describes relevant data.	Asks questions to gather information.	Displays data to answer simple questions about themselves or the environment.	Interprets information from a graph and answers questions comparing quantities	CCSS: Interpreting data from graphs is introduced in 1st grade.

CATEGORY 5: GEOMETRY				
STRANDS	NURSERY	PRE-KINDER	KINDER	ADVANCED LEARNING GOALS (Common Core Kinder Standards & Aprendizajes Sustantivos)
SPATIAL REASONING: Uses and demonstrates an understanding of positional terms	Locates the position of objects in relation to positional terms: on, under, in front of/behind.	Understands positional terms (e.g., inside, under, on, in front of, behind).	Responds to positional words (e.g. between, inside, under, on, in front of, behind, next to, move it to).	Describes objects in the environment using names of shapes, and describe the relative positions of these objects using terms such as above, below, beside, in front of, behind, and next to. CCSS.MATH.CONTENT.K.G.A.1
SHAPES: Recognizes names and describes common shapes and their properties.	Orders a small, medium and big circle by size. Identifies and constructs a circle and square using manipulatives.	Identifies circle, square, and triangle in English and constructs these shapes with manipulatives.	Identifies circle, square, rectangle, and triangle in English and constructs these shapes using manipulatives.	Composes simple shapes to form larger shapes. For example, " <i>Can you join these two triangles with full sides touching to make a rectangle?</i> " CCSS.MATH.CONTENT.K.G.B.6