

Table 1.8

Overview of the Alignment Between the Mathematics Domain and the Common Core State Standards

California Infant/Toddler Learning and Development Foundations	California Preschool Learning Foundations	Common Core State Standards Kindergarten
Cognitive Development	Mathematics	Mathematics
	<p align="center">Number Sense</p> <p>Children understand numbers and quantities in their everyday environment.</p> <p>Children understand number relationships and operations in their everyday environment.</p>	<p>Counting and Cardinality</p> <p>Know number names and the count sequence</p> <p>Count to tell the number of objects</p> <p>Compare numbers</p> <p>Operations and Algebraic Thinking</p> <p>Understand addition as putting together and adding to, and subtraction as taking apart and taking from</p> <p>Number and Operations in Base Ten</p> <p>Work with numbers 11–19 to gain foundations for place value</p>
	<p align="center">Algebra and Functions (Classification and Patterning)</p> <p>Children sort and classify objects in their everyday environment.</p> <p>Children recognize/expand understanding of simple repeating patterns.</p>	<p>Measurement and Data</p> <p>Classify objects and count the number of objects in categories</p>

Source: The Alignment of the California Preschool Learning Foundations with Key Early Education Resources, CDE, 2012.

Table 1.8 (continued)

Mathematics		
California Infant/Toddler Learning and Development Foundations	California Preschool Learning Foundations	Common Core State Standards Kindergarten
Cognitive Development	Mathematics	Mathematics
	Measurement	Measurement and Data
Spatial Relationships →	Children compare, order, and measure objects. →	Describe and compare measurable attributes
	Geometry	Geometry
Spatial Relationships →	<ul style="list-style-type: none"> Children identify and use shapes. → Children understand positions in space. → 	<ul style="list-style-type: none"> Identify and describe shapes (squares, circles, triangles, rectangles, hexagons, cubes, cones, cylinders, and spheres). Analyze, compare, create, and compose shapes. Identify and describe shapes (squares, circles, triangles, rectangles, hexagons, cubes, cones, cylinders, and spheres).

Table 1.8 (continued)

California Infant/Toddler Learning and Development Foundations	California Preschool Learning Foundations	Common Core State Standards Kindergarten
Cognitive Development	Mathematics	Mathematics
<p>Problem Solving</p>	<p>→ Children use mathematical thinking to solve problems in their everyday environment.</p>	<p>→</p> <ul style="list-style-type: none"> Make sense of problems and persevere in solving them. Reason abstractly and quantitatively. Construct viable arguments and critique the reasoning of others. Model with mathematics. Use appropriate tools strategically. Attend to precision. Look for and make use of structure. Look for and express regularity in repeated reasoning.