

Using *Investigations* to Teach the Common Core State Standards at Grade 1

Investigations is a focused and coherent K-5 curriculum, intentionally designed and sequenced to promote a deep understanding of mathematics. The curriculum units at each grade level represent a cohesive whole, not separate parts. Each successive unit builds on the previous unit, both within and across strands, and across grades. The geometry and measurement, data, and patterns and functions units focus on foundational mathematical ideas and practices and also support work in the number and operations units. By teaching the *Investigations* curriculum as written, students go deeply into mathematical practices and content.

The CCSS in Grade 1. Most of the CCSS content standards are met by teaching the first grade units, in order, as is *Investigations and the Common Core State Standards at Grade 1* provides new content so that all standards are covered.¹ In most cases, these Standards are also addressed by existing material in the *Investigations* curriculum. New activities and Sessions build on what is in the curriculum to introduce new ideas or extend existing ones. New Math/Teaching Notes, Classroom Routines, and pages for additional practice address language, vocabulary, notation, or levels of fluency specific to the CCSS.

Additional Content That Extends the Mathematics in *Investigations* Grade 1

Math Idea(s) ²	CCSS Standard	Additional Content	Unit
Solve problems with unknowns in all positions and find the unknown number in an addition or subtraction equation relating three whole numbers. Use a symbol for the unknown number.	1.OA.1-2 1.OA.8	2 Sessions Classroom Routine: <i>Tell a Story</i> Teaching Notes Daily Practice/Homework	6 7-9 6, 8 6-9
“Fluency for addition and subtraction within 10.”	1.OA.6	1 Session Teaching Notes Daily Practice/Homework	1 6 1
“Determine if equations involving addition and subtraction are true or false.”	1.OA.7	2 Sessions Teaching Notes Daily Practice/Homework	3, 6 3, 6 3-9
Count, read, and write numbers to 120. Shown a set of up to 120 objects, write the corresponding numeral. Students also need to go further with place value, and to add and subtract within 100.	1.NBT.1 1.NBT.2a-c 1.NBT.4-6	1 Investigation (5 Sessions) Classroom Routine: <i>Morning Meeting: Weather</i> Classroom Routine: <i>Start With/Get To</i> Teaching Notes Daily Practice/Homework	8 4, 6, 9 8-9 6, 8 8-9
“Compare two two-digit numbers.” Use notation ($>$, $<$, $=$).	1.NBT.3	Classroom Routine: <i>Morning Meeting: Weather</i>	3-4, 6, 9

¹ All the necessary information and materials are included in *Investigations and the Common Core State Standards*. For more information, see: http://assets.pearsonschool.com/asset_mgr/current/20119/InvestigationsCCBBrochure.pdf.

² These ideas, which paraphrase the CCSS Standards, may reflect only a portion of one standard, or several standards combined.

Math Idea(s) ²	CCSS Standard	Additional Content	Unit
Discriminate between defining and non-defining attributes, and draw shapes that possess defining attributes.	1.G.1	Math Notes Daily Practice/Homework	2, 9 2
Work with right circular cones and right circular cylinders.	1.G.2	1 Session	9
Work with halves and fourths (or quarters) of circles and rectangles.	1.G.2-3	1 Investigation (4 Sessions) Classroom Routine: <i>Quick Images: Shapes and Combination Shapes</i> Daily Practice/Homework	5 2, 9 5-7
Tell and write time to the half hour.	1.MD.3	2 new activities Classroom Routine: <i>Morning Meeting: Time</i> Daily Practice/Homework	5 2-5, 7-9 5-9
Figure out how many fewer (as well as how many more).	1.MD.4	<i>Classroom Routine: Quick Surveys</i> Teaching Notes	5-7, 9 4

Pacing in Grade 1. Most of the CCSS content standards are met by teaching the first grade units, in order, as written. *Investigations and the Common Core State Standards at Grade 1* includes 15 new Sessions which are incorporated into the nine original units. In order to keep the total number of Sessions manageable, omit the 13 Sessions listed in the table below. While they do not focus explicitly on CCSS content, they broaden the mathematics experience for first graders and can be taught if time permits.

Unit	Original # of Sessions	New Sessions	Sessions to be Omitted	Total # of Sessions
1	25	1 (1.OA.6)		26
2	16		3 (Quilt Squares, 3.1-3.3)	13
3	25	1 (1.OA.7)		26
4	13		2 (age data, 3.1-3.3 was condensed into 1 Session)	11
5	11	4 (1.MD.3, 1.G.2-3)		15
6	20	3 (1.OA.1-2, 1.OA.7-8)		23
7	15			15
8	18	5 (1.NBT.1-2a-c, 1.NBT.4-6)		23
9	16	1 (1.G.2)	8 (Mystery Boxes, making boxes, 1.6-1.8; Block Town, directions, 2.3-2.7)	9
	159	15	13	161