

## Using *Investigations* to Teach the Common Core State Standards at Grade 2

*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 2.** Most of the CCSS content standards are met by teaching the second grade units, in order, as is *Investigations and the Common Core State Standards at Grade 2* provides new content so that all standards are covered.<sup>1</sup> 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 2**

Math Idea(s) <sup>2</sup>	CCSS Standard	Additional Content	Unit
Solve addition and subtraction problems with unknowns in all positions.	2.OA.1	1 Session MW Activity Activity adapted (Tell a Story) Daily Practice/Homework	3 3 3 3, 5-6
Subtract within 20 fluently.	2.OA.2	2 Sessions Teaching Notes Daily Practice/Homework	2, 9 3-7 2, 3, 8, 9
Recognize that multiples of 100 are composed of hundreds and that 3-digit numbers are composed of 100s, 10s, and 1s. Use a place value model, and notation (>, <), to represent and compare 3 digit numbers “based on the meanings of ... 100s, 10s and 1s”.	2.NBT.1, 1b 2.NBT.4	1 Investigation (5 Sessions) Classroom Routine: <i>How Many Pockets? Tens and Ones</i> Classroom Routine: <i>Today’s Number</i> Math Note	6 3, 6 5, 6, 8 3
“Count within 1000; skip-count by 5s, 10s, and 100s.”	2.NBT.2	Daily Practice/Homework	6, 8-9
Read and write 3-digit numbers; use expanded form.	2.NBT.3		
Add and subtract 10 or 100 to/from a given number and describe what part of the number changes.	2.NBT.8		

<sup>1</sup> 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/InvestigationsCCBrochure.pdf](http://assets.pearsonschool.com/asset_mgr/current/20119/InvestigationsCCBrochure.pdf).

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

Math Idea(s) <sup>2</sup>	CCSS Standard	Additional Content	Unit
“Add up to four two-digit numbers using strategies based on place value and properties of operations.”	2.NBT.6	Classroom Routine: <i>How Many Pockets?</i> Daily Practice/Homework	6 6
“Add and subtract within 1000.”	2.NBT.7	1 Investigation (4 Sessions) Daily Practice/Homework	8 8
Tell and write time to the half hour to the nearest 5 minutes.	2.MD.7	Classroom Routine: What Time Is It? Daily Practice/Homework	6 6, 8
Represent measurement data on a line plot.	2.MD.9	Adapted activity Teaching Note	9 9
Use a bar graph to represent data.	2.MD.10	Activity Daily Practice/Homework	4 4, 5
Identify pentagons.	2.G.1	Classroom Routine: Drawing Shapes Teaching Notes Math Note Daily Practice/Homework	2 2 2 2
Partition a rectangle into an (up to 5 x 5) array. Count or add to find the total. Use an addition equation to express the total amount.	2.G.2 2.OA.4	Math Workshop Activity Teaching Note Daily Practice/Homework	2 2 2
Work with halves, thirds, and fourths of circles and rectangles.	2.G.3	1 Session Math Notes Daily Practice/Homework	7 7 7-9

**Pacing in Grade 2.** Most of the CCSS content standards are met by teaching the second grade units, in order, as written. *Investigations and the Common Core State Standards at Grade 2* includes 13 new Sessions which are incorporated into the nine original units. In order to keep the total number of Sessions manageable, omit the 12 Sessions listed in the table below. While they do not focus explicitly on CCSS content, they broaden the mathematics experience for second graders and can be taught if time permits.

Unit	Original # of Sessions	New Sessions	Sessions to be Omitted	Total # of Sessions
1	27			27
2	19	1 (2.OA.2)	4 (Symmetry, 3.1-3.4)	16
3	26	1 (2.OA.1)		27
4	15		2 (Data Project, 1.5-1.6)	13
5	11			11
6	20	5 (2.NBT.1, 1b, 2.NBT.2, 2.NBT.3, 2.NBT.4, 2.NBT.8)		25
7	10	1 (2.G.3)		11
8	16	4 (2.NBT.7)		20
9	21	1 (2.OA.2)	6 (Timelines, 4.1-4.6)	16
	<b>165</b>	<b>13</b>	<b>12</b>	<b>166</b>