

## Digging into Math Program Overview

The Digging into Math Program consists of 9 units covering the Common Core State Standards for Mathematics (CCSSM) from Grades 3, 4 and 5. Each unit contains lessons that specifically address both the content standards and the standards for mathematical practice.

### Stage A – Grade 3

Unit		Common Core State Standard Domains and Clusters	
Grade 3	Unit A1 Digging into Operations	OA	<ul style="list-style-type: none"> <li>Represent and solve problems involving multiplication and division.</li> <li>Understand properties of multiplication and the relationship between multiplication and division.</li> <li>Multiply and divide within 100.</li> <li>Solve problems involving the four operations, and identify and explain patterns in arithmetic.</li> </ul>
		NBT	<ul style="list-style-type: none"> <li>Use place value understanding and properties of operations to perform multi-digit arithmetic.</li> </ul>
		MD	<ul style="list-style-type: none"> <li>Solve problems involving measurement and estimation of intervals of time, liquid volumes, and masses of objects.</li> <li>Represent and interpret data.</li> </ul>
	Unit A2 Digging into Fractions	NF	<ul style="list-style-type: none"> <li>Develop understanding of fractions as numbers.</li> </ul>
		MD	<ul style="list-style-type: none"> <li>Solve problems involving measurement and estimation of intervals of time, liquid volumes, and masses of objects.</li> <li>Represent and interpret data.</li> </ul>
	Unit A3 Digging into Geometry	MD	<ul style="list-style-type: none"> <li>Geometric measurement: understand concepts of area and relate area to multiplication and to addition.</li> <li>Geometric measurement: recognize perimeter as an attribute of plane figures and distinguish linear and area measurements.</li> </ul>
		G	<ul style="list-style-type: none"> <li>Reason with shapes and their attributes.</li> </ul>

### Standards Correlation by Lesson

Unit A1 Digging into Operations	
Lesson	CCSS Alignment
1	3.MD.2
2	3.NBT.1
3	3.NBT.2
4	3.OA.1
5	3.OA.3
6	3.OA.3
7	3.OA.9
8	3.OA.3/3.OA.5/ 3.NBT.3
9	3.OA.2/3.OA.3
10	3.OA.3/3.OA.5
11	3.OA.4/3.OA.6/ 3.OA.7
12	3.OA.8
13	3.MD.3

Unit A2 Digging into Fractions	
Lesson	CCSS Alignment
1	3.NF.1
2	3.NF.2
3	3.NF.3ab
4	3.NF.3cd
5	3.NF.3
6	3.NF.3d
7	3.MD.4
8	3.MD.4

Unit A3 Digging into Geometry	
Lesson	CCSS Alignment
1	3.MD.1
2	3.G.1
3	3.MD.8
4	3.G.2
5	3.MD.5
6	3.MD.6
7	3.MD.7a
8	3.MD.7b
9	3.MD.7c
10	3.MD.7d
11	3.MD.8

## Stage B – Grade 4

Unit		Common Core State Standard Domains and Clusters	
<b>Grade 4</b>	<b>Unit B1 Digging into Operations</b>	<b>OA</b>	<ul style="list-style-type: none"> <li>• Use the four operations with whole numbers to solve problems.</li> <li>• Gain familiarity with factors and multiples.</li> <li>• Generate and analyze patterns.</li> </ul>
		<b>NBT</b>	<ul style="list-style-type: none"> <li>• Generalize place value understanding for multi-digit whole numbers.</li> <li>• Use place value understanding and properties of operations to perform multi-digit arithmetic.</li> </ul>
		<b>MD</b>	<ul style="list-style-type: none"> <li>• Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.</li> </ul>
<b>Unit B2 Digging into Fractions</b>	<b>NF</b>	<ul style="list-style-type: none"> <li>• Extend understanding of fraction equivalence and ordering.</li> <li>• Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.</li> <li>• Understand decimal notation for fractions, and compare decimal fractions.</li> </ul>	
	<b>MD</b>	<ul style="list-style-type: none"> <li>• Represent and interpret data.</li> </ul>	
<b>Unit B3 Digging into Geometry</b>	<b>MD</b>	<ul style="list-style-type: none"> <li>• Geometric measurement: understand concepts of angle and measure angles.</li> </ul>	
	<b>G</b>	<ul style="list-style-type: none"> <li>• Draw and identify lines and angles, and classify shapes by properties of their lines and angles.</li> </ul>	

## Standards Correlation by Lesson

**Unit B1  
Digging into Operations**

Lesson	CCSS Alignment
1	4.NBT.1/ 4.NBT.2
2	4.NBT.3
3	4.NBT.4
4	4.OA.1/4.OA.2
5	4.OA.2
6	4.NBT.5
7	4.NBT.5
8	4.NBT.6
9	4.NBT.6
10	4.OA.4
11	4.OA.3
12	4.OA.5
13	4.MD.1
14	4.MD.1/4.MD.2

**Unit B2  
Digging into Fractions**

Lesson	CCSS Alignment
1	4.NF.1
2	4.NF.2
3	4.NF.2
4	4.NF.3
5	4.NF.3
6	4.NF.3
7	4.NF.3
8	4.NF.4
9	4.MD.4
10	4.NF.6
11	4.NF.7
12	4.NF.6
13	4.NF.5

**Unit B3  
Digging into Geometry**

Lesson	CCSS Alignment
1	4.MD.3
2	4.MD.5
3	4.MD.6
4	4.MD.7
5	4.G.1
6	4.G.2
7	4.G.3

## Stage C – Grade 5

Unit		Common Core State Standard Domains and Clusters	
Grade 5	Unit C1 Digging into Operations	OA	<ul style="list-style-type: none"> <li>• Write and interpret numerical expressions.</li> <li>• Analyze patterns and relationships.</li> </ul>
		NBT	<ul style="list-style-type: none"> <li>• Understand the place value system.</li> <li>• Perform operations with multi-digit whole numbers and with decimals to hundredths.</li> </ul>
		MD	<ul style="list-style-type: none"> <li>• Convert like measurement units within a given measurement system.</li> </ul>
		G	<ul style="list-style-type: none"> <li>• Graph points on the coordinate plane to solve real-world and mathematical problems.</li> </ul>
	Unit C2 Digging into Fractions	NF	<ul style="list-style-type: none"> <li>• Use equivalent fractions as a strategy to add and subtract fractions.</li> <li>• Apply and extend previous understandings of multiplication and division to multiply and divide fractions.</li> </ul>
		MD	<ul style="list-style-type: none"> <li>• Represent and interpret data.</li> </ul>
	Unit C3 Digging into Geometry	MD	<ul style="list-style-type: none"> <li>• Geometric measurement: understand concepts of volume and relate volume to multiplication and to addition.</li> </ul>
		G	<ul style="list-style-type: none"> <li>• Classify two-dimensional figures into categories based on their properties.</li> </ul>

### Standards Correlation by Lesson

Unit C1 Digging into Operations	
Lesson	CCSS Alignment
1	5.NBT.5
2	5.NBT.6
3	5.NBT.6
4	5.NBT.3
5	5.NBT.3/ 5.NBT.4
6	5.NBT.7
7	5.NBT.7
8	5.NBT.7
9	5.MD.1
10	5.NBT.1/ 5.NBT.2
11	5.OA.1/5.OA.2
12	5.G.1
13	5.G.2
14	5.OA.3

Unit C2 Digging into Fractions	
Lesson	CCSS Alignment
1	5.NF.2
2	5.NF.1
3	5.NF.1
4	5.NF.1/5.NF.2/ 5.NF.3
5	5.NF.1
6	5.NF.1/5.NF.2
7	5.NF.1/5.NF.2
8	5.NF.1/5.NF.2
9	5.NF.4/5.NF.6
10	5.NF.4/5.NF.5/ 5.NF.6
11	5.NF.7
12	5.MD.2

Unit C3 Digging into Geometry	
Lesson	CCSS Alignment
1	5.G.3/5.G.4
2	5.G.3/5.G.4
3	5.G.3/5.G.4
4	5.MD.3
5	5.MD.4
6	5.MD.5a
7	5.MD.5b
8	5.MD.5c