

**New York City Department of Education
Core Curriculum Alignment Guidance
2012-13 School Year
Everyday Mathematics – Grade 4**

Background

This guidance document outlines how each of the textbook’s lessons align to the Common Core grade-level content standards and the Standards for Mathematical Practices (SMP) and whether the standards covered in each lesson are within major, supporting, or additional clusters, based on the [Math Content Emphases](#).¹ It also provides guidance around how schools may choose to spend instructional time to support a focus on the major work of the grade, which the [State has indicated](#) will be the focus of next year’s 3-8 State tests.

How to Use

To support schools with reorganizing math content to allow for more time to focus on the major work of the grade, as outlined in the [Citywide Instructional Expectations](#), this document includes recommendations around the amount of instructional time that educators might consider dedicating to each lesson within *Everyday Mathematics*. These recommendations are based on the standards alignment information from *Everyday Mathematics* and a close examination of the textbook by the Common Core Fellows. For example, where the textbook represents a strong alignment to major work, we recommend that educators spend more instructional time on those lessons. Where the lesson contains standards that represent major work but does not cover them strongly, we recommend that educators consider augmenting the lesson to cover the standards listed more fully. The key below indicates how to read the document.

Symbols	Content Emphases	Recommendation
Green with some bolded content standards, indicating a stronger alignment to the bolded standards (e.g. NBT)	Some standards addressed within the lesson represent ‘major work of the grade’ based on the Content Emphases	Consider spending more time on this lesson
Green with no bolded content standards	Some standards addressed within the lesson represent ‘major work of the grade’ based on the Content Emphases but are not strongly addressed	Consider augmenting or upgrading here so that the standards are covered more fully
Blue	Some standards addressed within the lesson are within ‘supporting’ clusters based on the Content Emphases	Consider implementing as is
Yellow	Standards addressed within the lesson are within ‘additional’ clusters based on the Content Emphases	Consider spending less time on lessons only covering additional concepts
Red	No content standards are addressed, only Mathematical Practices	Consider omitting lessons only covering Mathematical Practices

¹ For a listing of content emphases by cluster, refer to <http://engageny.org/resource/math-content-emphases>. For additional guidance—including key advances by grade, opportunities for in-depth focus, connections between content and practice standards, etc.—refer to http://www.parcconline.org/sites/parcc/files/PARCC%20MCF%20for%20Mathematics_Fall%202011%20Release.pdf.

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Lesson	Lesson Title	Pages	CCSS	Online Content for CCSS Alignment	Cluster Emphases & Recommendation
Chapter 1					
1-1	Introduction to the Student Reference Book	18–22	SMP3, SMP5, SMP6, SMP7 ----- 4.NBT.2		Major: Consider augmenting or upgrading here so that the standards are covered more fully
1-2	Points, Line Segments, Lines, and Rays	23–28	SMP1, SMP2, SMP4, SMP5, SMP6, SMP7, ----- 4.G.1	Math Journal, page 5	Additional: Consider spending less time on this lesson
1-3	1-3 Angles, Triangles, and Quadrangles	29–34	SMP2, SMP3, SMP5, SMP6, SMP7, ----- 4.G.1, 4.G.2	Math Journal, page 8	Additional: Consider spending less time on this lesson
1-4	Parallelograms	35–40	SMP2, SMP3, SMP4, SMP5, SMP6, SMP7, SMP8, ----- 4.G.1, 4.G.2	Math Journal, page 9	Additional: Consider spending less time on this lesson
1-5	Polygons	41–46	SMP1, SMP2, SMP3, SMP5, SMP6, SMP7, SMP8, ----- 4.G.2	Math Journal, page 13	Additional: Consider spending less time on this lesson
1-6	Drawing Circles with a Compass	47–51	SMP1, SMP2, SMP5, SMP6, SMP7, ----- 4.G.1, 4.G.2	Math Journal, page 16	Additional: Consider spending less time on this lesson

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1-7	Circle Constructions	52–56	SMP1, SMP2, SMP3, SMP4, SMP5, SMP6, SMP7 ----- 4.G.1, 4.G.2	Math Journal, page 20	Additional: Consider spending less time here
1-8	Hexagon and Triangle Constructions	57–61	SMP2, SMP5, SMP6, SMP7, ----- 4.G.1, 4.G.2	Math Journal, page 26	Additional: Consider spending less time on this lesson
1-9	Progress Check 1	62–65			
Chapter 2					
2-1	A Visit to Washington, D.C.	82–88	SMP2, SMP4, SMP5, SMP6, ----- 4.OA.5, 4.MD.2, 4.G.1, 4.G.2	Teacher’s Lesson Guide - Lesson 2-1.	Supporting: Consider implementing as is
2-2	Many Names for Numbers	89–93	SMP1, SMP2, SMP3		Math Practices only: Consider omitting
2-3	Place Value in Whole Numbers	94–99	SMP2, SMP6, SMP7, SMP8, ----- 4.OA.5, 4.NBT.1, 4.NBT.2, 4.G.1, 4.G.2	Teacher’s Lesson Guide Lesson 2-3	Major: Consider augmenting or upgrading here so that the standards are covered more fully
2-4	Place Value with a Calculator	100–105	SMP2, SMP5, SMP8, ----- 4.NBT.1, 4.NBT.2		Major: Consider augmenting or upgrading here so that the standards are covered more fully

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Lesson	Lesson Title	Pages	CCSS	Online Content for CCSS Alignment	Cluster Emphases & Recommendation
2-5	Organizing and Displaying Data	106–111	SMP1, SMP2, SMP4, SMP6, SMP7, SMP8		Math Practices only: Consider omitting
2-6	2-6 The Median	112–118	SMP2, SMP4, SMP7, SMP8, ----- 4.MD.1, 4.MD.2	Teacher’s Lesson Guide- Lesson 2-6	Supporting: Consider implementing as is
2-7	Addition of Multidigit Numbers	119–125	SMP1, SMP2, SMP3, SMP5, SMP6, SMP7, SMP8, ----- 4.OA.3, 4.NBT.2, 4.MD.2, 4.G.2	Teacher’s Lesson Guide Lesson 2-7, Math Masters, page 59	Major: Consider augmenting or upgrading here so that the standards are covered more fully
2-8	Displaying Data with a Bar Graph	126–131	SMP1, SMP2, SMP4, SMP5, SMP6, SMP7, ----- 4.MD.4	Teacher’s Lesson Guide Lesson 2-8	Supporting: Consider implementing as is
2-9	Subtraction of Multidigit Numbers	132–137	SMP1, SMP2, SMP3, SMP5, SMP6, SMP7, SMP8, ----- 4.OA.1, 4.OA.3, 4.NBT.4, 4.MD.2	Teacher’s Lesson Guide Lesson 2-9	Major: Consider augmenting or upgrading here so that the standards are covered more fully
2-10	Progress Check 2	138–141			
Chapter 3					

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Lesson	Lesson Title	Pages	CCSS	Online Content for CCSS Alignment	Cluster Emphases & Recommendation
3-1	“What’s My Rule?”	158–162	SMP3, SMP5, SMP6, SMP7, SMP8, ----- 4.OA.5	Teacher’s Lesson Guide - Lesson 3-1 Math Masters, page 72	Additional: Consider spending less time on this lesson
3-2	Multiplication Facts	163–168	SMP1, SMP2, SMP5, SMP6, SMP7, SMP8, ----- 4.OA.1, 4.OA.4, 4.OA.5	Teacher’s Lesson Guide Lesson 3-2	Major: Consider spending more time on this lesson
3-3	Multiplication Facts Practice	169–174	SMP1, SMP2, SMP4, SMP5, SMP6, SMP7, ----- 4.OA.1, 4.OA.4, 4.OA.5 , 4.MD.1, 4.MD.2	Teacher’s Lesson Guide Lesson 3-3 Math Masters, pages 77 and 78	Major: Consider spending more time on this lesson
3-4	More Multiplication Facts Practice	175–179	SMP1, SMP2, SMP4, SMP6, ----- 4.OA.1	Teacher’s Lesson Guide Lesson 3-4 Math Masters, page 82	Major: Consider augmenting or upgrading here so that the standards are covered more fully
3-5	Multiplication and Division	180–185	SMP1, SMP2, SMP3, SMP4, SMP5, SMP6, SMP7, ----- 4.OA.1, 4.NBT.6, 4.MD.2	Teacher’s Lesson Guide Lesson 3-5	Major: Consider augmenting or upgrading here so that the standards are covered more fully

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Lesson	Lesson Title	Pages	CCSS	Online Content for CCSS Alignment	Cluster Emphases & Recommendation
3-6	World Tour: Flying to Africa	186–191	SMP1, SMP2, SMP3, SMP4, SMP6, ----- 4.NBT.2, 4.NBT.3, 4.MD.1, 4.MD.2	Teacher’s Lesson Guide Lesson 3-6	Major: Consider augmenting or upgrading here so that the standards are covered more fully
3-7	Finding Air Distances	192–197	SMP1, SMP2, SMP3, SMP4, SMP5, SMP6, SMP7, ----- 4.MD.2, 4.G.1, 4.G.2		Supporting: Consider implementing as is
3-8	A Guide for Solving Number Stories	198–202	SMP1, SMP2, SMP3, SMP4, SMP6, ----- 4.OA.3, 4.NBT.2, 4.MD.2	Teacher’s Lesson Guide Lesson 3-8 Math Masters, pages 91 and 92	Major: Consider augmenting or upgrading here so that the standards are covered more fully
3-9	True or False Number Sentences	203–207	SMP2, SMP3, SMP6, ----- 4.NBT.2		Major: Consider augmenting or upgrading here so that the standards are covered more fully
3-10	Parentheses in Number Sentences	208–213	SMP1, SMP2, SMP3, SMP6, SMP8		Math Practices only: Consider omitting
3-11	Open Sentences	214–219	SMP1, SMP2, SMP3, SMP5, SMP6 ----- 4.OA.1, 4.OA.4, 4.MD.2	Teacher’s Lesson Guide Lesson 3-11	Major: Consider augmenting or upgrading here so that the standards are covered more fully

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Lesson	Lesson Title	Pages	CCSS	Online Content for CCSS Alignment	Cluster Emphases & Recommendation
3-12	Progress Check 3	220–223			
Chapter 4					
4-1	Decimal Place Value	238–243	SMP2, SMP5, SMP6, SMP7, SMP8, ----- 4.NBT.1 , 4.G.1, 4.G.2		Major: Consider spending more time on this lesson
4-2	Review of Basic Decimal Concepts	244–249	SMP1, SMP2, SMP5, SMP6, ----- 4.NF.6		Major: Consider spending more time on this lesson
4-3	Comparing and Ordering Decimals	250–254	SMP2, SMP3, SMP5, SMP6, ----- 4.NF.7		Major: Consider spending more time on this lesson
4-4	Estimating with Decimals	255–259	SMP1, SMP2, SMP3, SMP4, SMP5, SMP6, ----- 4.NF.7 , 4.MD.2		Major: Consider spending more time on this lesson
4-5	Decimal Addition and Subtraction	260–265	SMP1, SMP2, SMP3, SMP5, SMP6, SMP7, ----- 4.OA.2, 4.MD.2	Teacher’s Lesson Guide Lesson 4-5	Major: Consider augmenting or upgrading here so that the standards are covered more fully
4-6	Decimals in Money	266–270	SMP1, SMP2, SMP3, SMP4, SMP5, SMP6, ----- 4.MD.1, 4.MD.2	Teacher’s Lesson Guide - Lesson 4-6	Supporting: Consider implementing as is

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Lesson	Lesson Title	Pages	CCSS	Online Content for CCSS Alignment	Cluster Emphases & Recommendation
4-7	Thousandths	271–276	SMP1, SMP2, SMP4, SMP6, ----- 4.NBT.1, 4.NF.6, 4.NF.7		Major: Consider augmenting or upgrading here so that the standards are covered more fully
4-8	Metric Units of Length	277–282	SMP2, SMP4, SMP5, SMP6, ----- 4.NBT.1, 4.MD.1		Major: Consider spending more time on this lesson
4-9	Personal References for Metric Length	283–288	SMP2, SMP3, SMP4, SMP5, SMP6, ----- 4.NF.7, 4.MD.1		Major: Consider spending more time on this lesson
4-10	Measuring In Millimeters	289–293	SMP1, SMP4, SMP5, SMP6, ----- 4.OA.2, 4.MD.1	Teacher’s Lesson Guide - Lesson 4-10	Major: : Consider augmenting or upgrading the existing lesson/unit
4-11	Progress Check 4	294–297		Teacher’s Lesson Guide Progress Check 4, Assessment Handbook, page 170	
Chapter 5					
5-1	5-1 Extended Multiplication Facts	314–319	SMP1, SMP2, SMP3, SMP4, SMP5, SMP6, SMP7, SMP8, ----- 4.OA.1, 4.OA.2, 4.NBT.1, 4.NBT.5 , 4.MD.1, 4.MD.2	Teacher’s Lesson Guide - Lesson 5-1	Major: Consider spending more time on this lesson

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Lesson	Lesson Title	Pages	CCSS	Online Content for CCSS Alignment	Cluster Emphases & Recommendation
5-2	Multiplication Wrestling	320–324	SMP1, SMP2, SMP3, SMP4, SMP6, SMP7, SMP8, ----- 4.NBT.2, 4.NBT.5, 4.MD.2	Teacher’s Lesson Guide - Lesson 5-2 Math Masters, page 140	Major: Consider augmenting or upgrading here so that the standards are covered more fully
5-3	Estimating Sums	325–330	SMP1, SMP3, SMP4, SMP5, SMP6 ----- 4.OA.3, 4.NBT.3, 4.MD.2	Teacher’s Lesson Guide - Lesson 5-3	Major: Consider augmenting or upgrading here so that the standards are covered more fully
5-4	Estimating Products	331–336	SMP1, SMP3, SMP4, SMP5, SMP6, SMP8, ----- 4.NBT.3, 4.NBT.5, 4.MD.2	Major	Major: Consider augmenting or upgrading here so that the standards are covered more fully
5-5	Partial- Products Multiplication (Part 1)	337–342	SMP1, SMP2, SMP3, SMP4, SMP5, SMP6, SMP8, ----- 4.OA.3, 4.NBT.5, 4.MD.2		Major: Consider augmenting or upgrading here so that the standards are covered more fully
5-6	Partial- Products Multiplication (Part 2)	343–348	SMP1, SMP2, SMP4, SMP5, SMP6, SMP7, SMP8, ----- 4.OA.3, 4.NBT.3, 4.NBT.5, 4.MD.2	Teacher’s Lesson Guide - Lesson 5-6	Major: Consider augmenting or upgrading here so that the standards are covered more fully

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5-7	Lattice Multiplication	349–354	SMP2, SMP5, SMP6, SMP7, SMP8, ----- 4.NBT.5, 4.MD.2	Teacher’s Lesson Guide - Lesson 5-7	Major: Consider augmenting or upgrading here so that the standards are covered more fully
5-8	Big Numbers	355–360	SMP1, SMP2, SMP3, SMP4, SMP5, SMP6, SMP7, ----- 4.OA.2, 4.OA.3, 4.NBT.1, 4.NBT.2	Teacher’s Lesson Guide - Lesson 5-8	Major: Consider augmenting or upgrading here so that the standards are covered more fully
5-9	Powers of 10	361–366	SMP2, SMP3, SMP4, SMP6, SMP7, SMP8, ----- 4.NBT.1, 4.NBT.2, 4.G.1, 4.G.2		Major: Consider augmenting or upgrading here so that the standards are covered more fully
5-10	Rounding and Reporting Large Numbers	367–372	SMP1, SMP3, SMP4, SMP5, SMP6, ----- 4.NBT.3		Major: Consider augmenting or upgrading here so that the standards are covered more fully
5-11	Comparing Data	373–377	SMP2, SMP3, SMP4, SMP5, SMP6, ----- 4.OA.3, 4.NBT.2, 4.MD.2	Teacher’s Lesson Guide - Lesson 5-11	Major: Consider augmenting or upgrading here so that the standards are covered more fully
5-12	Progress Check 5	378–381			
Chapter 6					

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Lesson	Lesson Title	Pages	CCSS	Online Content for CCSS Alignment	Cluster Emphases & Recommendation
6-1	Multiplication and Division Number Stories	400–405	SMP1, SMP2, SMP3, SMP4, SMP5, SMP6, ----- 4.OA.2, 4.OA.3, 4.NBT.3, 4.NBT.6, 4.MD.2	Teacher’s Lesson Guide - Lesson 6-1 Math Masters, pages 177 and 436	Major: Consider augmenting or upgrading here so that the standards are covered more fully
6-2	Strategies for Division	406–411	SMP1, SMP2, SMP3, SMP4, SMP5, SMP6, SMP7, SMP8, ----- 4.OA.3, 4.OA.4, 4.NBT.2, 4.NBT.6	Teacher’s Lesson Guide -Lesson 6-2 Math Masters, page 178	Major: Consider augmenting or upgrading here so that the standards are covered more fully
6-3	The Partial- Quotients Division Algorithm, Part 1	412–418	SMP1, SMP2, SMP3, SMP4, SMP5, SMP6, SMP7, SMP8, ----- 4.OA.3, 4.NBT.6, 4.MD.2	Teacher’s Lesson Guide - Lesson 6-3 Math Masters, page 180	Major: Consider augmenting or upgrading here so that the standards are covered more fully
6-4	Expressing and Interpreting Remainders	419–424	SMP1, SMP2, SMP3, SMP4, SMP6, ----- 4.OA.3, 4.OA.4, 4.NBT.6, 4.MD.2	Math Journal, pages 148–150; Math Masters, page 182	Major: Consider spending more time on this lesson

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Lesson	Lesson Title	Pages	CCSS	Online Content for CCSS Alignment	Cluster Emphases & Recommendation
6-5	Rotations and Angles	425–430	SMP1, SMP2, SMP3, SMP4, SMP5, SMP6, ----- 4.MD.2, 4.MD.5a , 4.MD.5b	Teacher’s Lesson Guide - Lesson 6-5	Supporting: Consider implementing as is
6-6	Using a Full-Circle Protractor	431–436	SMP2, SMP3, SMP5, SMP6, ----- 4.NBT.6, 4.MD.2, 4.MD.5a, 4.MD.5b , 4.MD.6 , 4.MD.7	Teacher’s Lesson Guide - Lesson 6-6 Math Masters, pages 190 and 507–509	Major: Consider spending more time on this lesson
6-7	The Half-Circle Protractor	437–442	SMP2, SMP3, SMP4, SMP5, SMP6 ----- 4.MD.5a, 4.MD.5b, 4.MD.6 , 4.MD.7	Teacher’s Lesson Guide - Lesson 6-7	Additional: Consider spending less time on this lesson
6-8	Rectangular Coordinate Grids for Maps	443–448	SMP1, SMP2, SMP4, SMP5, SMP6 ----- 4.OA.3, 4.MD.5a, 4.MD.5b, 4.MD.6, 4.MD.7	Teacher’s Lesson Guide -Lesson 6-8	Major: Consider augmenting or upgrading here so that the standards are covered more fully
6-9	Global Coordinate Grid System	449–454	SMP1, SMP4, SMP6	Math Journal, page 165	Math Practices only: Consider omitting
6-10	The Partial- Quotients Division Algorithm, Part 2	455–459	SMP1, SMP2, SMP4, SMP5, SMP6, SMP7, SMP8, ----- 4.OA.3, 4.NBT.6	Math Masters, page 197	Major: Consider augmenting or upgrading here so that the standards are covered more fully

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Lesson	Lesson Title	Pages	CCSS	Online Content for CCSS Alignment	Cluster Emphases & Recommendation
6-11	Progress Check 6	460–463		Assessment Handbook, page 180	
Chapter 7					
7-1	Review of Basic Fraction Concepts	570–575	SMP2, SMP3, SMP4, SMP5, SMP6 ----- 4.NF.3b	Teacher’s Lesson Guide - Lesson 7-1	Major: Consider augmenting or upgrading here so that the standards are covered more fully
7-2	Fractions of Sets	576–580	SMP2, SMP3, SMP4, SMP5, SMP6 ----- 4.NF.4c, 4.MD.2		Major: Consider augmenting or upgrading here so that the standards are covered more fully
7-3	Probabilities When Outcomes Are Equally Likely	581–586	SMP1, SMP2, SMP4, SMP6, SMP8 ----- 4.NF.4c		Major: Consider augmenting or upgrading here so that the standards are covered more fully
7-4	Pattern- Block Fractions	587–591	SMP1, SMP2, SMP3, SMP4, SMP5, SMP6, ----- 4.NF.3a, 4.NF.3b, 4.MD.2	Teacher’s Lesson Guide -Lesson 7-4	Major: Consider augmenting or upgrading here so that the standards are covered more fully
7-5	Fraction Addition and Subtraction	592–597	SMP1, SMP2, SMP5, SMP6 ----- 4.NF.3a, 4.NF.3b, 4.NF.3c, 4.NF.3d, 4.MD.6	Teacher’s Lesson Guide Lesson 7-5 Math Masters, page 216	Major: Consider augmenting or upgrading here so that the standards are covered more fully

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7-6	Many Names for Fractions	598–602	SMP2, SMP5, SMP6, SMP7, ----- 4.NF.1, 4.NF.2, 4.NF.3a, 4.NF.3c, 4.NF.3d	Teacher’s Lesson Guide -Lesson 7-6	Major: Consider augmenting or upgrading here so that the standards are covered more fully
7-7	Equivalent Fractions	603–608	SMP2, SMP3, SMP5, SMP6, SMP7, SMP8, ----- 4.OA.4, 4.NF.1 , 4.NF.2, 4.NF.3a , 4.NF.3c , 4.NF.3d	Teacher’s Lesson Guide - Lesson 7-7	Major: Consider spending more time on this lesson
7-8	Fractions and Decimals	609–614	SMP1, SMP2, SMP3, SMP4, SMP5, SMP6, 4.NF.1, 4.NF.5 , 4.NF.6	Teacher’s Lesson Guide - Lesson 7-8 Math Masters, pages 227A and 227B	Major: Consider spending more time on this lesson
7-9	Comparing Fractions	615–620	SMP2, SMP3, SMP4, SMP6, ----- 4.NF.1, 4.NF.2 , 4.NF.5, 4.MD.7	Teacher’s Lesson Guide - Lesson 7-9	Major: Consider spending more time on this lesson
7-10	The ONE for Fractions	621–625	SMP2, SMP4, SMP5, SMP6, ----- 4.NF.1, 4.NF.2, 4.NF.3a, 4.NF.3c, 4.NF.3d, 4.MD.4	Teacher’s Lesson Guide - Lesson 7-10	Major: Consider augmenting or upgrading here so that the standards are covered more fully

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7-11	Probability, Fractions, and Spinners	626–631	SMP2, SMP3, SMP4, SMP5, SMP6		Math Practices only: Consider omitting
7-12	The Cube-Drop Experiment	632–637	SMP1, SMP2, SMP3, SMP4, SMP5, SMP6, ----- 4.NBT.2, 4.NF.3b, 4.NF.6	Teacher’s Lesson Guide - Lesson 7-12	Major: Consider augmenting or upgrading here so that the standards are covered more fully
7-12a	Multiplying Fractions by Whole	637A–637H	SMP1, SMP2, SMP3, SMP4, SMP5, SMP6, SMP7, SMP8 ----- 4.OA.4, 4.NF.4a, 4.NF.4b, 4.NF.4c	Numbers Teacher’s Lesson Guide - Lesson 7-12a Math Masters, pages 242A–242D	Major: Consider augmenting or upgrading here so that the standards are covered more fully
7-13	Progress Check 7	638–641		Assessment Handbook, page 187	
Chapter 8					
8-1	Kitchen Layouts and Perimeters	658–663	SMP1, SMP2, SMP3, SMP4, SMP5, SMP6, SMP7 ----- 4.NF.1, 4.NF.6, 4.MD.2		Major: Consider augmenting or upgrading here so that the standards are covered more fully
8-2	Scale Drawings	664–669	SMP1, SMP2, SMP4, SMP5, SMP6, SMP8 ----- 4.NF.4a, 4.NF.4b, 4.NF.4c	Teacher’s Lesson Guide - Lesson 8-2	Major: Consider augmenting or upgrading here so that the standards are covered more fully

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8-3	Area	670–674	SMP3, SMP4, SMP6, SMP7 ----- 4.NF.2, 4.MD.3		Major: Consider spending more time on this lesson
8-4	What Is the Area of My Skin?	675–680	SMP1, SMP2, SMP4, SMP6 ----- 4.MD.1, 4.MD.2		Supporting : Consider implementing as is
8-5	Formula for the Area of a Rectangle	681–686	SMP2, SMP5, SMP6, SMP7, SMP8 ----- 4.MD.2, 4.MD.3		Supporting: Consider implementing as is
8-6	Formula for the Area of a Parallelogram	687–692	SMP2, SMP3, SMP5, SMP6, SMP7, SMP8 ----- 4.NF.4c, 4.MD.3, 4.MD.7, 4.G.1	Teacher’s Lesson Guide - Lesson 8-6	Major: Consider augmenting or upgrading here so that the standards are covered more fully
8-7	Formula for the Area of a Triangle	693–698	SMP2, SMP4, SMP5, SMP6, SMP7, SMP8 ----- 4.NBT.2, 4.NF.4c, 4.MD.3, 4.G.1, 4.G.2	Teacher’s Lesson Guide -Lesson 8-7 Math Masters, page 454A	Major: Consider augmenting or upgrading here so that the standards are covered more fully
8-8	Geographical Area Measurements	699–703	SMP2, SMP4, SMP5, SMP6, SMP7, ----- 4.OA.2, 4.OA.3, 4.NBT.3, 4.MD.2	Teacher’s Lesson Guide - Lesson 8-8	Major: Consider augmenting or upgrading here so that the standards are covered more fully

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8-9	Progress Check 8	704–707			
Chapter 9					
9-1	Fractions, Decimals, and Percents	722–727	SMP1, SMP2, SMP4, SMP6, ----- 4.NF.1, 4.NF.6		Major: Consider augmenting or upgrading here so that the standards are covered more fully
9-2	Converting “Easy” Fractions to Decimals and Percents	728–733	SMP1, SMP2, SMP4, SMP6 ----- 4.NF.1, 4.NF.5, 4.NF.6, 4.MD.3	Teacher’s Lesson Guide Lesson 9-2 Math Masters, pages 283A and 283B	Major: Consider augmenting or upgrading here so that the standards are covered more fully
9-3	Using a Calculator to Convert Fractions to Decimals	734–738	SMP1, SMP5, SMP6, SMP7, SMP8, ----- 4.NF.6		Major: Consider spending more time on this lesson
9-4	Using a Calculator to Rename Fractions as Percents	739–743	SMP1, SMP2, SMP3, SMP4, SMP5, SMP7, SMP8 ----- 4.MD.1, 4.MD.2		Supporting: Consider implementing as is
9-5	Conversions among Fractions, Decimals, and Percents	744–749	SMP2, SMP4, SMP5, SMP7, SMP8 ----- 4.NF.6, 4.MD.7	Teacher’s Lesson Guide - Lesson 9-5	Major: Consider augmenting or upgrading here so that the standards are covered more fully

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9-6	Comparing the Results of a Survey	750–755	SMP1, SMP2, SMP3, SMP4, SMP6, SMP7 ----- 4.OA.3, 4.NF.5, 4.MD.2	Teacher’s Lesson Guide - Lesson 9-6	Major: Consider augmenting or upgrading here so that the standards are covered more fully
9-7	Comparing Population Data	756–761	SMP1, SMP2, SMP3, SMP4, SMP5, SMP6, SMP7 ----- 4.NF.2		Major: Consider augmenting or upgrading here so that the standards are covered more fully
9-8	Multiplication of Decimals	762–767	SMP1, SMP2, SMP4, SMP6, SMP7 ----- 4.NBT.5, 4.MD.2		Major: Consider augmenting or upgrading here so that the standards are covered more fully
9-9	9-9 Division of Decimals	768–773	SMP1, SMP2, SMP4, SMP6, SMP7, SMP8, ----- 4.OA.3, 4.NBT.6, 4.MD.2, 4.G.1, 4.G.2		Major: Consider augmenting or upgrading here so that the standards are covered more fully
9-10	Progress Check 9	774–777			
Chapter 10					
10-1	10-1 Explorations with a Transparent Mirror	794–798	SMP2, SMP5, SMP6 ----- 4.NF.5, 4.G.3	Teacher’s Lesson Guide Lesson 10-1	Major: Consider augmenting or upgrading here so that the standards are covered more fully

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Lesson	Lesson Title	Pages	CCSS	Online Content for CCSS Alignment	Cluster Emphases & Recommendation
10-2	Finding Lines of Reflection	799–804	SMP4, SMP5, SMP6 ----- 4.MD.6, 4.G.3		Additional: Consider spending less time on this lesson
10-3	Properties of Reflections	805–809	SMP2, SMP4, SMP5, SMP6, SMP7 ----- 4.OA.5, 4.MD.1, 4.G.3	Teacher’s Lesson Guide -Lesson 10-3	Supporting: Consider implementing as is
10-4	Line Symmetry	810–815	SMP2, SMP4, SMP5, SMP6, SMP7 ----- 4.NF.4a, 4.NF.4b, 4.NF.4c, 4.NF.5, 4.G.3	Teacher’s Lesson Guide - Lesson 10-4	Major: Consider spending more time on this lesson
10-5	Frieze Patterns	816–821	SMP2, SMP4, SMP5, SMP6, SMP7 ----- 4.OA.5, 4.G.1, 4.G.2, 4.G.3		Additional: Consider spending less time on this lesson
10-6	Positive and Negative Numbers	822–827	SMP2, SMP4, SMP5, SMP6, SMP7 ----- 4.NF.6, 4.MD.1	Teacher’s Lesson Guide - Lesson 10-6	Major: Consider augmenting or upgrading here so that the standards are covered more fully
10-7	Progress Check 10	828–831			
Chapter 11					

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Lesson	Lesson Title	Pages	CCSS	Online Content for CCSS Alignment	Cluster Emphases & Recommendation
11-1	Weight	848–853	SMP2, SMP4, SMP5, SMP6, ----- 4.MD.1, 4.MD.2	Teacher’s Lesson Guide - Lesson 11-1	Supporting: Consider implementing as is
11-2	Geometric Solids	854–859	SMP2, SMP5, SMP6, SMP7		Math Practices only: Consider omitting
11-3	Constructing Geometric Solids	860–865	SMP2, SMP4, SMP5, SMP6, SMP7, ----- 4.NF.3c, 4.NF.3d, 4.NF.4a, 4.NF.4b, 4.MD.4	Teacher’s Lesson Guide - Lesson 11-3	Major: Consider augmenting or upgrading here so that the standards are covered more fully
11-4	A Volume Exploration	866–871	SMP2, SMP4, SMP5, SMP6, SMP7, ----- 4.NBT.3, 4.MD.1		Major: Consider augmenting or upgrading here so that the standards are covered more fully
11-5	A Formula for the Volume of Rectangular Prisms	872–877	SMP2, SMP6, SMP7, SMP8 ----- 4.MD.3		Supporting: Consider implementing as is
11-6	Subtraction of Positive And Negative Numbers	878–883	SMP2, SMP5, SMP6, SMP8		Math Practices only: Consider omitting

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Lesson	Lesson Title	Pages	CCSS	Online Content for CCSS Alignment	Cluster Emphases & Recommendation
11-7	Capacity and Weight	884–889	SMP2, SMP4, SMP5, SMP6 ----- 4.OA.3, 4.NF.4a, 4.NF.4b, 4.MD.1 , 4.MD.2	Teacher’s Lesson Guide - Lesson 11-7	Major: Consider spending more time on this lesson
11-8	Progress Check 11	890–893			
Chapter 12					
12-1	Introducing Rates	908–913	SMP2, SMP4, SMP6, SMP7 ----- 4.NF.6		Major: Consider augmenting or upgrading here so that the standards are covered more fully
12-2	Solving Rate Problems	914–919	SMP1, SMP2, SMP3, SMP4, SMP6, SMP8 ----- 4.OA.3, 4.MD.1, 4.MD.2	Math Journal, page 314	Major: Consider augmenting or upgrading here so that the standards are covered more fully
12-3	Converting Between Rates	920–925	SMP1, SMP2, SMP3, SMP4, SMP6, SMP8 ----- 4.OA.3, 4.OA.4, 4.NBT.3, 4.MD.1, 4.MD.2		Major: Consider augmenting or upgrading here so that the standards are covered more fully

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Lesson	Lesson Title	Pages	CCSS	Online Content for CCSS Alignment	Cluster Emphases & Recommendation
12-4	12-4 Comparison Shopping: Part 1	926–930	SMP1, SMP2, SMP3, SMP4, SMP6, SMP8 ----- 4.MD.1, 4.MD.2	Teacher’s Lesson Guide Lesson 12-4	Supporting: Consider implementing as is
12-5	Comparison Shopping: Part 2	931-935	SMP1, SMP2, SMP4, SMP5, SMP6, SMP7 ----- 4.NF.2, 4.MD.2	Teacher’s Lesson Guide – Lesson 12-5	Major: Consider augmenting or upgrading here so that the standards are covered more fully
12-6	World Tour and 50-Facts Test Wrap-Ups	936-940	SMP2, SMP4, SMP6, ----- 4.MD.1	Teacher’s Lesson Guide Lesson 12-6-	Supporting: Consider implementing as is
12-7	Progress Check 12	941-945		Teacher’s Lesson Guide Progress Check 12 Assessment Handbook, page 211	
Projects					
1	Making a Cutaway Globe	466-469 (948-951)	SMP2, SMP4, SMP5, SMP6 ----- 4.MD.5a		Additional: Consider spending less time on this lesson
2	Using a Magnetic Compass	470-473 (952-955)	SMP2, SMP3, SMP4, SMP5, SMP6 ----- 4.MD.5a		Additional: Consider spending less time on this lesson

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3	A Carnival Game	474-476 (956-958)	SMP1, SMP2, SMP3, SMP4, SMP6		Math Practices only: Consider omitting
4	Making a Quilt	477-481 (959-963)	SMP1, SMP2, SMP4, SMP6, SMP7 ----- 4.OA.5, 4.G.3		Additional: Consider spending less time on this lesson
5	Which Soft Drink Is the Best Buy?	482-484 (964-966)	SMP1, SMP2, SMP3, SMP4, SMP5, SMP6 ----- 4.MD.2		Supporting: Consider implementing as is
6	Building and Viewing Structures	485-489 (967-971)	SMP1, SMP2, SMP3, SMP6		Math Practices only: Consider omitting
7	Numbers, Mayan Style	490-493 (972-975)	SMP2, SMP4, SMP6, SMP7		Math Practices only: Consider omitting
Algorithm Projects					
1	U.S. Traditional Addition	A1-A4	SMP1, SMP2, SMP3, SMP4, SMP5, SMP6, SMP8 ----- 4.NBT.4		Major: Consider augmenting or upgrading here so that the standards are covered more fully

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2	U.S. Traditional Addition: Decimals	A5-A9	SMP1, SMP2, SMP3, SMP4, SMP5, SMP6, SMP8		Math Practices only: Consider omitting
3	U.S. Traditional Subtraction	A10-A14	SMP1, SMP2, SMP2, SMP4, SMP5, SMP6, SMP8 ----- 4.NBT.4		Major: Consider augmenting or upgrading here so that the standards are covered more fully
4	U.S. Traditional Subtraction: Decimals	A15-A20	SMP1, SMP2, SMP3, SMP4, SMP5, SMP6, SMP8		Math Practices only: Consider omitting
5	U.S. Traditional Multiplication	A21-A25	SMP1, SMP2, SMP3, SMP4, SMP5, SMP6, SMP8 ----- 4.NBT.5		Major: Consider augmenting or upgrading here to that the standards are covered more fully
6	U.S. Traditional Multiplication: Decimals	A26-A30	SMP1, SMP2, SMP3, SMP4, SMP5, SMP6, SMP8		Math Practices only: Consider omitting
7	U.S. Traditional Long Division, Part 1	A31-A36	SMP1, SMP2, SMP3, SMP4, SMP5, SMP6, SMP8 ----- 4.NBT.6		Major: Consider augmenting or upgrading here so that the standards are covered more fully

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8	U.S. Traditional Long Division, Part 2	A37-A42	SMP1, SMP2, SMP3, SMP4, SMP5, SMP6, SMP8, ----- 4.NBT.6		Major: Consider augmenting or upgrading here so that the standards are covered more fully