

Math Mammoth Grade 3 Alignment to the Common Core Standards

The table below lists each lesson in the two student worktexts, 3-A and 3-B, and next to it the relevant Common Core Standard.

Math Mammoth Grade 3-A

Chapter 1: Addition and Subtraction

Lesson	page number	Standards
Mental Addition	11	3.OA.9 3.NBT.2
Review: Mental Subtraction	14	3.OA.8 3.NBT.2
More Mental Subtraction	17	3.OA.8 3.NBT.2
Ordinal Numbers and Roman Numerals	20	
More Mental Addition	23	3.OA.8 3.OA.9 3.NBT.2
Mental Subtraction with Three-Digit Numbers	26	3.OA.8 3.NBT.2
Regrouping in Addition	29	3.OA.8 3.NBT.2 3.MD.3
Review: Regrouping in Subtraction	33	3.OA.8 3.NBT.2
Regrouping Twice in Subtraction	36	3.OA.8 3.NBT.2
Regrouping Twice in Subtraction, Part 2	40	3.OA.8 3.NBT.2
Regrouping with Zero Tens	43	3.OA.8 3.NBT.2
Regrouping with Zero Tens, Part 2	46	3.OA.8 3.NBT.2
Rounding 2-Digit Numbers to the Nearest Ten	49	3.NBT.1
Rounding 3-Digit Numbers to the Nearest Ten	51	3.NBT.1
The Connection with Addition and Subtraction	54	3.OA.8
Mileage Chart	58	3.OA.8

Chapter 1: Addition and Subtraction, continued

Lesson	page number	Standards
Order of Operations	60	3.OA.8
Graphs	62	3.MD.3
Review Chapter 1	65	3.OA.8 3.NBT.1 3.NBT.2

Chapter 2: Multiplication Concept

Lesson	page number	Standards
Many Times the Same Group	70	3.OA.1
Multiplication and Addition	71	3.OA.1
Multiplying on a Number Line	74	3.OA.1 3.OA.4
Multiplication as an Array	77	3.OA.1
Order of Operations 1	79	
Understanding Word Problems, Part 1	80	3.OA.3
Understanding Word Problems, Part 2	83	3.OA.3
Multiplication in Two Ways	85	3.OA.1 3.OA.3 3.OA.5
Order of Operations 2	89	3.OA.3
Multiplying by Zero	91	3.OA.1 3.OA.5
Mixed Review Chapter 2	93	3.OA.8 3.NBT.1 3.NBT.2
Review Chapter 2	95	3.OA.1 3.OA.3 3.OA.5

Chapter 3: Multiplication Tables

Lesson	page number	Standards
Multiplication Table of 2	102	3.OA.3 3.OA.4 3.OA.5 3.OA.7
Multiplication Table of 4	105	3.OA.3 3.OA.4 3.OA.5 3.OA.7
Multiplication Table of 10	107	3.OA.3 3.OA.4 3.OA.7
Multiplication Table of 5	109	3.OA.4 3.OA.7 3.OA.9
More Practice and Review (Tables of 2, 4, 5, and 10)	112	3.OA.3 3.OA.4 3.OA.7 3.OA.9
Multiplication Table of 3	115	3.OA.3 3.OA.4 3.OA.7 3.OA.9
Multiplication Table of 6	118	3.OA.4 3.OA.7
Multiplication Table of 11	120	3.OA.4 3.OA.7 3.OA.9
Multiplication Table of 9	123	3.OA.4 3.OA.7 3.OA.9
Multiplication Table of 7	127	3.OA.3 3.OA.4 3.OA.7
Multiplication Table of 8	129	3.OA.3 3.OA.4 3.OA.7
Multiplication Table of 12	132	3.OA.4 3.OA.7
Mixed Review Chapter 3	134	3.OA.3 3.NBT.1 3.NBT.2 3.MD.3
Review Chapter 3	136	3.OA.3 3.OA.4 3.OA.7

Chapter 4: Telling Time

Lesson	page number	Standards
Review: Reading the Clock	142	
Half and Quarter Hours	144	
Review: Till and Past	146	
How Many Minutes Pass?	148	3.MD.1
Practice	151	3.MD.1
Clock to the Minute	152	3.MD.1
Elapsed Time	155	3.MD.1
More on Elapsed Time	157	3.MD.1
Using the Calendar	161	
Mixed Review Chapter 4	163	3.OA.3 3.OA.8 3.NBT.1 3.NBT.2
Review Chapter 4	165	3.MD.1

Chapter 5: Money

The Common Core standards for grade 3 do not explicitly mention money, so the only standard that applies here is about solving word problems.

Lesson	page number	Standards
Using the Half-Dollar	168	
Dollars	170	3.OA.8
Making Change	173	3.OA.8
Mental Math and Money Problems	177	3.OA.8
Solving Money Problems	180	3.OA.8
Mixed Review Chapter 5	184	3.OA.1 3.OA.3 3.OA.4 3.OA.7 3.OA.8
Review Chapter 5	186	3.OA.8

Math Mammoth Grade 3-B

Chapter 6: Place Value with Thousands

Common Core Standards specify that in grade 2, students study numbers up to 1,000, and that in grade 4, students study numbers up to 1 million. There is no mention of place value for grade 3; however I have decided to include 4-digit numbers here (numbers up to 10,000). I feel a more gradual progression towards the large numbers is easier for students.

Lesson	page number	Standards
Thousands	8	
Four-Digit Numbers and Place Value	12	
Which Number Is Greater?	16	
Mental Adding and Subtracting	18	3.OA.8
Add 4-Digit Numbers with Regrouping	22	3.OA.8
Subtract 4-Digit Numbers with Regrouping	24	3.OA.8
Rounding to the Nearest Hundred	28	3.NBT.1
Estimating	31	3.NBT.1
Word Problems	34	3.OA.8 3.MD.3
Mixed Review	37	3.OA.8 3.OA.4 3.NBT.1 3.NBT.2 3.MD.1
Review	39	3.OA.8 3.NBT.1

Chapter 7: Geometry

Lesson	page number	Standards
Shapes	46	3.G.1
Some Special Quadrilaterals	50	3.G.1
Perimeter	53	3.MD.8
Problems with Perimeter	56	3.MD.8
Getting Started with Area	59	3.MD.5 3.MD.6
More about Area	61	3.MD.7
Multiplying by Whole Tens	65	3.NBT.3 3.MD.7
Area Units and Problems	69	3.MD.5 3.MD.6 3.MD.7
Area and Perimeter Problems	73	3.MD.5 3.MD.7 3.MD.8
More Area and Perimeter Problems	75	3.MD.7 3.MD.8
Solids	78	
Mixed Review Chapter 7	80	3.OA.8 3.NBT.2 3.MD.1 3.MD.3
Geometry Review	82	3.NBT.3 3.MD.5 3.MD.6 3.MD.7 3.MD.8 3.G.1

Chapter 8: Measuring

The Common Core Standards for grade 3 do not mention anything about measuring length, or measuring mass or volume in customary units. I have included all of those topics for completeness's sake. (The standards only mention measuring with grams, kilograms, and liters, and making line plots while measuring objects in inches.)

Lesson	page number	Standards
Measuring to the Nearest Fourth-Inch	87	
Centimeters and Millimeters	91	3.MD.8
Line Plots and More Measuring	95	3.MD.4 3.MD.8
Feet, Yards, and Miles	98	
Meters and Kilometers	100	
Pounds and Ounces	102	
Grams and Kilograms	106	3.MD.2
Cups, Pints, Quarts, and Gallons	110	
Milliliters and Liters	113	3.MD.2
Mixed Review Chapter 8	115	3.OA.7 3.NBT.1 3.NBT.2 3.NBT.3 3.MD.7
Review Chapter 8	117	3.MD.2 3.MD.8

Chapter 9: Division

Lesson	page number	Standards
Division as Making Groups	122	3.OA.2 3.OA.3 3.OA.9
Division and Multiplication	126	3.OA.1 3.OA.2 3.OA.5 3.OA.6
Division and Multiplication Facts	130	3.OA.1 3.OA.2 3.OA.3 3.OA.4 3.OA.5 3.OA.6 3.OA.7
Dividing Evenly into Groups	133	3.OA.2 3.OA.3 3.OA.4 3.OA.5 3.OA.7 3.OA.9
Division Word Problems	137	3.OA.3 3.OA.4
Zero in Division	140	3.OA.3 3.OA.4 3.OA.5
When Division is not Exact	143	3.OA.9
More Practice with the Remainder	146	3.OA.3
Mixed Review Chapter 9	148	3.MD.7 3.MD.8 3.NBT.1 3.NBT.2 3.OA.8
Review Chapter 9	150	3.OA.1 3.OA.2 3.OA.3 3.OA.4 3.OA.5 3.OA.6 3.OA.7

Chapter 10: Fractions

Lesson	page number	Standards
Understanding Fractions	155	3.NF.1 3.G.2
Fractions on a Number Line	159	3.NF.2
Mixed Numbers	163	
Equivalent Fractions	167	3.NF.3
Comparing Fractions 1	170	3.NF.2 3.NF.3
Comparing Fractions 2	173	3.NF.3
Mixed Review Chapter 10	175	3.OA.3 3.OA.6 3.OA.7 3.NBT.1 3.MD.7 3.MD.8 3.NF.2 3.NF.3
Fractions Review	177	3.NF.1 3.NF.2 3.NF.3 3.G.2