

Houghton Mifflin Harcourt
Into Math, Grade 3 © 2020
 correlated to the

Kentucky Academic Standards for Mathematics (2019)

Grade 3

Module/Lesson	Name	From page	To page	Citations
Module 1: Understand Multiplication				
Lesson 1.1	Count Equal Groups	5	8	SMP.1; SMP.5; SMP.7; KY.3.OA.1
Lesson 1.2	Relate Addition and Multiplication	9	12	SMP.1; SMP.4; SMP.6; KY.3.OA.1
Lesson 1.3	Represent Multiplication with Arrays	13	16	SMP.1; SMP.4; SMP.6; KY.3.OA.3
Lesson 1.4	Understand the Commutative Property of Multiplication	17	20	SMP.1; SMP.5; SMP.7; KY.3.OA.5
Lesson 1.5	Represent Multiplication with Number Lines	21	24	SMP.1; SMP.2; SMP.4; SMP.5; KY.3.OA.3
Lesson 1.6	Represent Multiplication with Bar Models	25	30	SMP.1; SMP.3; SMP.4; SMP.5; KY.3.OA.3
Module 2: Relate Multiplication and Area				
Lesson 2.1	Understand Area by Counting Unit Squares	35	38	SMP.2; SMP.5; KY.3.MD.5

Houghton Mifflin Harcourt *Into Math*, Grade 3 © 2020 correlated to the
Kentucky Academic Standards for Mathematics, Grade 3

Module/Lesson	Name	From page	To page	Citations
Lesson 2.2	Measure Area by Counting Unit Squares	39	42	SMP.3; SMP.5; SMP.6; KY.3.MD.5; KY.3.MD.6
Lesson 2.3	Relate Area to Addition and Multiplication	43	46	SMP.6; SMP.8; KY.3.MD.7
Lesson 2.4	Solve Problems with Area	47	50	SMP.1; SMP.2; KY.3.MD.7
Lesson 2.5	Find the Area of Combined Rectangles	51	54	SMP.1; SMP.6; KY.3.MD.7
Module 3: Understand Multiplication Strategies				
Lesson 3.1	Multiply with 2 and 4	61	66	SMP.5; SMP.8; KY.3.OA.3
Lesson 3.2	Multiply with 5 and 10	67	72	SMP.4; SMP.5; SMP.8; KY.3.OA.3
Lesson 3.3	Multiply with 3 and 6	73	78	SMP.1; SMP.4; SMP.5; SMP.7; KY.3.OA.3
Module 4: Apply Multiplication Properties as Strategies				
Lesson 4.1	Understand the Identity and Zero Properties of Multiplication	83	86	SMP.4; KY.3.OA.5
Lesson 4.2	Understand the Distributive Property	87	90	SMP.7; KY.3.OA.5
Lesson 4.3	Understand the Associative Property of Multiplication	91	94	SMP.2; SMP.4; KY.3.OA.5

Houghton Mifflin Harcourt *Into Math*, Grade 3 © 2020 correlated to the
Kentucky Academic Standards for Mathematics, Grade 3

Module/Lesson	Name	From page	To page	Citations
Lesson 4.4	Multiply with 7	95	98	SMP.7; KY.3.OA.5; KY.3.OA.7
Lesson 4.5	Multiply with 8	99	102	SMP.7; KY.3.OA.5; KY.3.OA.7
Lesson 4.6	Multiply with 9	103	106	SMP.7; KY.3.OA.5; KY.3.OA.7
Lesson 4.7	Identify Number Patterns on the Multiplication Table	107	112	SMP.5; SMP.7; SMP.8; KY.3.OA.5; KY.3.OA.9
Module 5: Multiplication with Multiples of 10				
Lesson 5.1	Use the Distributive Property	117	122	SMP.3; SMP.7; SMP.8; KY.3.OA.5; KY.3.NBT.3
Lesson 5.2	Use the Associative Property of Multiplication	123	126	SMP.3; SMP.7; KY.3.OA.5; KY.3.NBT.3
Lesson 5.3	Use Place-Value Strategies to Multiply with Multiples of 10	127	130	SMP.3; SMP.5; KY.3.OA.1; KY.3.NBT.3
Lesson 5.4	Multiply Multiples of 10 by 1-Digit Numbers	131	134	SMP.7; KY.3.OA.3; KY.3.NBT.3
Module 6: Understand Division				
Lesson 6.1	Represent Division	139	142	SMP.1; SMP.2; SMP.3; SMP.5; KY.3.OA.3
Lesson 6.2	Separate Objects into Equal Groups	143	146	SMP.1; SMP.2; SMP.6; KY.3.OA.2

Houghton Mifflin Harcourt *Into Math*, Grade 3 © 2020 correlated to the
Kentucky Academic Standards for Mathematics, Grade 3

Module/Lesson	Name	From page	To page	Citations
Lesson 6.3	Find the Number of Equal Groups	147	150	SMP.1; SMP.6; KY.3.OA.2
Lesson 6.4	Relate Subtraction and Division	151	154	SMP.1; SMP.4; KY.3.OA.3
Lesson 6.5	Represent Division with Arrays	155	158	SMP.1; SMP.4; SMP.5; KY.3.OA.3
Lesson 6.6	Represent Division with Bar Models	159	162	SMP.1; SMP.5; KY.3.OA.2
Lesson 6.7	Apply Division Rules for 1 and 0	163	166	SMP.4; SMP.7; KY.3.OA.5
Module 7: Relate Multiplication and Division				
Lesson 7.1	Relate Multiplication and Division	171	174	SMP.3; SMP.5; SMP.7; KY.3.OA.6
Lesson 7.2	Write Related Facts	175	178	SMP.2; SMP.4; SMP.7; KY.3.OA.7
Lesson 7.3	Multiply and Divide with 2, 4, and 8	179	184	SMP.1; SMP.4; SMP.6; SMP.7; SMP.8; KY.3.OA.3; KY.3.OA.7
Lesson 7.4	Multiply and Divide with 5 and 10	185	190	SMP.2; SMP.7; SMP.8; KY.3.OA.3; KY.3.OA.7
Lesson 7.5	Multiply and Divide with 3 and 6	191	196	SMP.2; SMP.4; SMP.7; SMP.8; KY.3.OA.3; KY.3.OA.7

Houghton Mifflin Harcourt *Into Math*, Grade 3 © 2020 correlated to the
Kentucky Academic Standards for Mathematics, Grade 3

Module/Lesson	Name	From page	To page	Citations
Lesson 7.6	Multiply and Divide with 7 and 9	197	202	SMP.1; SMP.2; SMP.4; SMP.5; SMP.7; SMP.8; KY.3.OA.4; KY.3.OA.5
Lesson 7.7	Build Fluency with Multiplication and Division	203	206	SMP.1; SMP.2; SMP.4; SMP.7; SMP.8; KY.3.OA.7
Module 8: Apply Multiplication and Division				
Lesson 8.1	Identify and Extend Patterns	211	214	SMP.7; KY.3.OA.9
Lesson 8.2	Find Unknown Factors and Numbers	215	220	SMP.4; KY.3.OA.4; KY.3.OA.6
Lesson 8.3	Use Multiplication and Division to Solve Problem Situations	221	224	SMP.1; SMP.4; KY.3.OA.3; KY.3.OA.4
Lesson 8.4	Solve Two-Step Problems	225	230	SMP.1; SMP.4; KY.3.OA.3; KY.3.OA.8
Lesson 8.5	Practice with One- and Two-Step Problems	231	234	SMP.1; SMP.4; KY.3.OA.8
Module 9: Addition and Subtraction Strategies				
Lesson 9.1	Identify Number Patterns on the Addition Table	241	244	SMP.2; SMP.3; SMP.5; KY.3.OA.9
Lesson 9.2	Use Mental Math Strategies for Addition and Subtraction	245	248	SMP.5; KY.3.NBT.2
Lesson 9.3	Use Properties to Add	249	252	SMP.1; SMP.2; SMP.7; KY.3.NBT.2

Houghton Mifflin Harcourt *Into Math*, Grade 3 © 2020 correlated to the
Kentucky Academic Standards for Mathematics, Grade 3

Module/Lesson	Name	From page	To page	Citations
Lesson 9.4	Use Mental Math to Assess Reasonableness	253	256	SMP.3; KY.3.OA.8; KY.3.NBT.2
Lesson 9.5	Round to the Nearest Ten or Hundred	257	260	SMP.2; KY.3.NBT.1
Lesson 9.6	Use Estimation with Sums and Differences	261	264	SMP.3; KY.3.NBT.1
Module 10: Addition and Subtraction Within 1,000				
Lesson 10.1	Use Expanded Form to Add	269	272	SMP.3; SMP.6; SMP.7; KY.3.NBT.2
Lesson 10.2	Use Place Value to Add	273	278	SMP.1; SMP.2; SMP.3; SMP.4; SMP.6; KY.3.NBT.2
Lesson 10.3	Combine Place Values to Subtract	279	282	SMP.2; SMP.6; KY.3.NBT.2
Lesson 10.4	Use Place Value to Subtract	283	288	SMP.3; SMP.6; SMP.7; KY.3.NBT.2
Lesson 10.5	Choose a Strategy to Add or Subtract	289	292	SMP.1; SMP.2; SMP.3; SMP.6; KY.3.OA.8; KY.3.NBT.2
Lesson 10.6	Model and Solve Two-Step Problems	293	298	SMP.3; SMP.4; KY.3.OA.8
Module 11: Understand Perimeter				
Lesson 11.1	Describe Perimeter	303	306	SMP.5; KY.3.MD.8

Houghton Mifflin Harcourt *Into Math*, Grade 3 © 2020 correlated to the
Kentucky Academic Standards for Mathematics, Grade 3

Module/Lesson	Name	From page	To page	Citations
Lesson 11.2	Find Perimeter	307	310	SMP.2; SMP.5; KY.3.MD.8
Lesson 11.3	Find Unknown Side Lengths	311	314	SMP.1; SMP.3; SMP.6; KY.3.MD.8
Lesson 11.4	Represent Rectangles with the Same Area and Different Perimeters	315	318	SMP.3; SMP.6; SMP.8; KY.3.MD.8
Lesson 11.5	Represent Rectangles with the Same Perimeter and Different Areas	319	322	SMP.1; SMP.2; KY.3.MD.8
Module 12: Time Measurement and Intervals				
Lesson 12.1	Tell and Write Time to the Minute	327	330	SMP.3; SMP.5; SMP.6; KY.3.MD.1
Lesson 12.2	Use a.m. and p.m. to Describe Time	331	334	SMP.2; SMP.5; SMP.6; KY.3.MD.1
Lesson 12.3	Measure Time Intervals	335	338	SMP.1; SMP.2; SMP.5; SMP.6; KY.3.MD.1
Lesson 12.4	Find Start and End Times	339	342	SMP.1; SMP.2; SMP.5; SMP.7; KY.3.MD.1
Lesson 12.5	Solve Time Interval Problems	343	346	SMP.1; SMP.2; SMP.5; SMP.6; KY.3.MD.1
Module 13: Understand Fractions as Numbers				
Lesson 13.1	Describe Equal Parts of a Whole	353	356	KY.3.NF.1; KY.3.G.2

Houghton Mifflin Harcourt *Into Math, Grade 3* © 2020 correlated to the
Kentucky Academic Standards for Mathematics, Grade 3

Module/Lesson	Name	From page	To page	Citations
Lesson 13.2	Represent and Name Unit Fractions	357	360	SMP.2; KY.3.NF.1; KY.3.G.2
Lesson 13.3	Represent and Name Fractions of a Whole	361	364	SMP.8; KY.3.NF.1
Lesson 13.4	Represent and Name Fractions on a Number Line	365	368	SMP.2; SMP.5; KY.3.NF.2
Lesson 13.5	Express Whole Numbers as Fractions	369	372	SMP.2; SMP.5; KY.3.NF.3
Lesson 13.6	Represent and Name Fractions Greater Than 1	373	376	SMP.7; SMP.8; KY.3.NF.1; KY.3.NF.2
Lesson 13.7	Use Fractions to Measure Lengths	377	380	SMP.3; SMP.5; SMP.6; KY.3.MD.4
Module 14: Relate Shapes, Fractions, and Area				
Lesson 14.1	Relate Fractions and Area	385	388	SMP.3; KY.3.G.2
Lesson 14.2	Partition Shapes into Equal Areas	389	392	SMP.3; SMP.6; KY.3.G.2
Lesson 14.3	Use Unit Fractions to Describe Area	393	396	SMP.3; SMP.8; KY.3.G.2
Module 15: Compare Fractions				
Lesson 15.1	Compare Fractions Using Concrete and Visual Models	401	404	SMP.6; KY.3.NF.3

Module/Lesson	Name	From page	To page	Citations
Lesson 15.2	Compare Fractions with the Same Denominator	405	408	SMP.1; SMP.2; SMP.3; KY.3.NF.3
Lesson 15.3	Compare Fractions with the Same Numerator	409	412	SMP.1; SMP.2; KY.3.NF.3
Lesson 15.4	Use Reasoning Strategies to Compare Fractions	413	416	SMP.1; SMP.2; KY.3.NF.3
Module 16: Understand Equivalent Fractions				
Lesson 16.1	Represent Equivalent Fractions with Smaller Parts	421	424	SMP.2; SMP.5; KY.3.NF.3
Lesson 16.2	Represent Equivalent Fractions with Larger Parts	425	428	SMP.6; SMP.7; KY.3.NF.3
Lesson 16.3	Recognize and Generate Equivalent Fractions	429	432	SMP.7; KY.3.NF.3
Module 17: Liquid Volume and Mass				
Lesson 17.1	Estimate and Measure Liquid Volume	439	442	SMP.2; SMP.5; KY.3.MD.2
Lesson 17.2	Estimate and Measure Mass	443	446	SMP.5; KY.3.MD.2
Lesson 17.3	Solve Problems About Liquid Volume and Mass	447	452	SMP.1; SMP.2; SMP.4; SMP.5; SMP.7; KY.3.MD.2
Module 18: Represent and Interpret Data				
Lesson 18.1	Use Picture Graphs	457	460	SMP.2; KY.3.MD.3

Houghton Mifflin Harcourt *Into Math*, Grade 3 © 2020 correlated to the
Kentucky Academic Standards for Mathematics, Grade 3

Module/Lesson	Name	From page	To page	Citations
Lesson 18.2	Make Picture Graphs	461	464	SMP.2; SMP.6; KY.3.MD.3
Lesson 18.3	Use Bar Graphs	465	468	SMP.4; SMP.7; KY.3.MD.3
Lesson 18.4	Make Bar Graphs	469	472	SMP.2; SMP.6; KY.3.MD.3
Lesson 18.5	Use Line Plots to Display Measurement Data	473	476	SMP.3; KY.3.MD.4
Lesson 18.6	Make Line Plots to Display Measurement Data	477	480	SMP.6; SMP.7; KY.3.MD.4
Lesson 18.7	Solve One- and Two-Step Problems Using Data	481	484	SMP.1; SMP.2; SMP.6; KY.3.MD.3
Module 19: Define Two-Dimensional Shapes				
Lesson 19.1	Describe Shapes	491	494	SMP.3; KY.3.G.1
Lesson 19.2	Describe Angles in Shapes	495	498	SMP.2; KY.3.G.1
Lesson 19.3	Describe Sides of Shapes	499	502	SMP.3; KY.3.G.1
Lesson 19.4	Define Quadrilaterals	503	506	SMP.2; KY.3.G.1
Module 20: Categorized Two-Dimensional Shapes				

Houghton Mifflin Harcourt *Into Math, Grade 3* © 2020 correlated to the
Kentucky Academic Standards for Mathematics, Grade 3

Module/Lesson	Name	From page	To page	Citations
Lesson 20.1	Draw Quadrilaterals	511	514	SMP.2; KY.3.G.1
Lesson 20.2	Categorize Quadrilaterals	515	518	SMP.2; SMP.3; KY.3.G.1
Lesson 20.3	Categorize Plane Shapes	519	522	SMP.3; KY.3.G.1