

Louisiana Believes

Louisiana Guide to Implementing Illustrative Mathematics: Grades 6-8

To assist teachers with the implementation of grades 6-8 Illustrative Mathematics curriculum, this document provides multiple layers of guidance regarding how Illustrative Mathematics lessons correlation with the Louisiana Student Standards for Mathematics (LSSM).

Illustrative Mathematics is focused, coherent math curriculum which provides ample instructional guidance for teachers. This Louisiana Guide to Implementing Illustrative Mathematics goes a step further to point out places in which teachers may need to make strategic decisions considering student needs and time availability.

This guidance document is considered a “living” document as we believe that teachers and other educators will find ways to improve the document as they use it. Please send feedback to LouisianaStandards@la.gov so that we may use your input when updating this guide.

Updated on August 11, 2020



Table of Contents

6th Grade.....	2
Suggested Implementation Calendar	2
Alignment to Louisiana Student Standards for Mathematics.....	3
Focus in the Standards.....	4
Standards by Lesson	6
Video Lessons 6th Grade	10
6th Grade Video Lesson List.....	11
7th Grade.....	13
Suggested Implementation Calendar	13
Alignment to Louisiana Student Standards for Mathematics.....	14
Focus in the Standards.....	15
Standards by Lesson	17
Video Lessons 7th Grade	20
7th Grade Video Lesson List.....	21
8th Grade.....	23
Suggested Implementation Calendar	23
Alignment to Louisiana Student Standards for Mathematics.....	24
Focus in the Standards.....	25
Not all content at given grades is emphasized equally in the standards. Some clusters require greater emphasis than others based on the depth of ideas, the time that they take to master, and/or their importance to future mathematics or the demands of college and career readiness. More time in these areas is also necessary for students to meet the Louisiana Standards for Mathematical Practices.	25
Standards by Lesson	26
Video Lessons 8 th Grade.....	29
8th Grade Video Lesson List.....	30
Administrator Guidance.....	32
Suggested Implementation Calendar (compiled grade levels).....	32
Curriculum Implementation Observation Tool: Illustrative Mathematics	26
Purchasing Guidance.....	28

6th Grade

Suggested Implementation Calendar¹

Grade 6	Unit	Approximate # of Days	# of Lessons
weeks 1-5	Unit 1: Area and Surface Area	22-23 days	19 lessons
weeks 6-9	Unit 2: Introducing Ratios	18-19 days	17 lessons
weeks 10-13	Unit 3: Unit Rates and Percentages	18-19 days	17 lessons
Administer Interim Form 1B -- Focus on Items 6, 13, 17, 18, 19, 20, 21, 23			
weeks 14-17	Unit 4: Dividing Fractions	20-21 days	17 lessons
weeks 18-21	Unit 5: Arithmetic in Base Ten	16-18 days	15 lessons
weeks 22-26	Unit 6: Expressions and Equations	20-25 days	18 lessons
Administer Interim Form 2B			
weeks 27-30	Unit 7: Rational Numbers	20-21 days	18 lessons
weeks 31-34	Unit 8: Data Sets and Distributions	19-20 days	18 lessons
weeks 35-36	Unit 9: Putting It All Together <i>Optional Unit</i>	0-10 days	6 lessons

¹ Adapted from guidance developed by Illustrative Mathematics

Alignment to Louisiana Student Standards for Mathematics²

Units of Study	Alignment to the Louisiana Student Standards for Mathematics (LSSM)
Unit 1: Area and Surface Area	Aligned to LSSM
Unit 2: Introducing Ratios	Aligned to LSSM
Unit 3: Unit Rates and Percentages	Aligned to LSSM
Unit 4: Dividing Fractions	Aligned to LSSM
Unit 5: Arithmetic in Base Ten	Aligned to LSSM
Unit 6: Expressions and Equations	Supplemental work should be added throughout Unit 6 for solving real-world and mathematical problems by writing and solving inequalities of the form $x + p > q$, and $px > q$ ($>$, $<$, $=$).
Unit 7: Rational Numbers	Aligned to LSSM
Unit 8: Data Sets and Distributions	Specific activities and parts of activities within lessons 11 (activity 3 & 4), 12 (activity 2 & 3), and 18 (activity 2 questions 1b, 2, and 4; activity 3) can be used as enrichment or are optional as they go beyond the scope of standard 6.SP.5 regarding mean absolute deviation (MAD). These can be added into Grade 7 Unit 8.
Unit 9: Putting It All Together	Aligned to LSSM

² Developed in partnership with Illustrative Mathematics

Focus in the Standards

Not all content at given grades is emphasized equally in the standards. Some clusters require greater emphasis than others based on the depth of ideas, the time that they take to master, and/or their importance to future mathematics or the demands of college and career readiness. More time in these areas is also necessary for students to meet the Louisiana Standards for Mathematical Practices.

To say that some things have greater emphasis is not to say that anything in the standards can safely be neglected in instruction. Neglecting material will leave gaps in student skill and understanding and may leave students unprepared for the challenges of a later grade. Students should spend the large majority of their time on the major work on the grade (■). Supporting work (■) and, where appropriate, additional work (■) can engage students in the major work of the grade.

Grade 6: Standards by Unit								
Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Unit 7	Unit 8	Unit 9
6.G.A.1	6.RP.A	6.RP.A	6.NS.A.1	6.NS.B	6.EE.A.1	6.NS.B.4	6.SP.A,	6.G.A
6.G.A.2	6.RP.A.1	6.RP.A.2	6.G.A.1	6.NS.B.2	6.EE.A.2	6.NS.C	6.SP.A.1	6.NS.A
6.G.A.4	6.RP.A.2	6.RP.A.3	6.G.A.2	6.NS.B.3	6.EE.A.2.a	6.NS.C.5	6.SP.A.2	6.NS.B
6.EE.A	6.RP.A.3	6.RP.A.3.b		6.EE.A	6.EE.A.2.c	6.NS.C.6	6.SP.A.3	6.NS.B.3
6.EE.A.1	6.RP.A.3.a	6.RP.A.3.c		6.EE.A.4	6.EE.A.3	6.NS.C.6.a	6.SP.B	6.RP.A
6.EE.A.2.a	6.RP.A.3.b	6.RP.A.3.d			6.EE.A.4	6.NS.C.6.b	6.SP.B.4	6.RP.A.1
6.EE.A.2.c		6.G.A			6.EE.B	6.NS.C.6.c	6.SP.B.5	6.RP.A.2
					6.EE.B.5	6.NS.C.7	6.SP.B.5.a	6.RP.A.3
					6.EE.B.6	6.NS.C.7.a	6.SP.B.5.b	6.RP.A.3.c
					6.EE.B.7	6.NS.C.7.b	6.SP.B.5.c	
					6.EE.C.9	6.NS.C.7.c		
					6.NS.B.3	6.NS.C.7.d		

Grade 6: Standards by Unit								
Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Unit 7	Unit 8	Unit 9
					6.RP.A.3.b 6.RP.A.3.c	6.NS.C.8 6.EE.A.2.b 6.EE.B.5 6.EE.B.6 6.EE.B.8 6.G.A.3	6.SP.B.5.d 6.NS.B.3	

Standards by Lesson

Standard	Lesson(s)	*videos linked for lessons that have one available
6.EE.A	6.1.17, 6.5.5	
6.EE.A.1	6.1.17, 6.1.18, 6.6.12, 6.6.13, 6.6.14, 6.6.15	
6.EE.A.2	6.6.10, 6.6.11	
6.EE.A.2.a	6.1.5, 6.1.9, 6.1.18, 6.6.6	
6.EE.A.2.b	6.7.10	
6.EE.A.2.c	6.1.5, 6.1.6, 6.1.9, 6.1.10, 6.6.6, 6.6.14, 6.6.15	
6.EE.A.3	6.6.10, 6.6.11	
6.EE.A.4	6.5.13, 6.6.8, 6.6.10, 6.6.11	
6.EE.B	6.6.4, 6.6.5	
6.EE.B.5	6.6.2 , 6.6.3, 6.6.4 , 6.6.5, 6.6.8 , 6.6.15, 6.7.9, 6.7.10	
6.EE.B.6	6.6.1 , 6.6.3, 6.6.4, 6.6.5, 6.6.6 , 6.6.7, 6.7.8, 6.7.10	
6.EE.B.7	6.6.3, 6.6.4, 6.6.5, 6.6.7	
6.EE.B.8	6.7.8, 6.7.9, 6.7.10	
6.EE.C.9	6.6.16 , 6.6.17 , 6.6.18	* video lesson is 6.6.16 & 6.6.17 combined
6.G.A	6.3.17, 6.9.1	
6.G.A.1	6.1.2, 6.1.3, 6.1.4, 6.1.5, 6.1.6, 6.1.7, 6.1.8, 6.1.9, 6.1.10, 6.1.11, 6.1.19, 6.4.14	

Standard	Lesson(s)	*videos linked for lessons that have one available
6.G.A.2	6.1.15, 6.4.14, 6.4.15, 6.4.17	
6.G.A.3	6.7.15	
6.G.A.4	6.1.12, 6.1.13, 6.1.14, 6.1.15, 6.1.16, 6.1.18, 6.1.19	
6.NS.A	6.9.3	
6.NS.A.1	6.4.3, 6.4.4, 6.4.5, 6.4.6, 6.4.7, 6.4.8, 6.4.9, 6.4.10, 6.4.11, 6.4.12, 6.4.13, 6.4.14, 6.4.16, 6.4.17	
6.NS.B	6.5.5, 6.5.6, 6.9.1, 6.9.2	
6.NS.B.2	6.5.9, 6.5.10, 6.5.11	
6.NS.B.3	6.5.2, 6.5.3, 6.5.4, 6.5.7, 6.5.8, 6.5.12, 6.5.13, 6.5.14, 6.5.15, 6.6.4, 6.8.12, 6.9.6	
6.NS.B.4	6.7.16, 6.7.17, 6.7.18	
6.NS.C	6.7.4	
6.NS.C.5	6.7.1 , 6.7.5	
6.NS.C.6	6.7.1 , 6.7.2 , 6.7.4, 6.7.14	
6.NS.C.6.a	6.7.2 , 6.7.4, 6.7.7	
6.NS.C.6.b	6.7.11 , 6.7.14	
6.NS.C.6.c	6.7.2 , 6.7.11 , 6.7.12, 6.7.13 , 6.7.15	
6.NS.C.7	6.7.4, 6.7.6 , 6.7.7	
6.NS.C.7.a	6.7.3 , 6.7.9	

Standard	Lesson(s)	*videos linked for lessons that have one available
6.NS.C.7.b	6.7.3 , 6.7.8	
6.NS.C.7.c	6.7.6 , 6.7.13	
6.NS.C.7.d	6.7.6 , 6.7.7	
6.NS.C.8	6.7.11 , 6.7.13 , 6.7.14 , 6.7.15	
6.RP.A	6.2.17, 6.3.17, 6.9.1, 6.9.2	
6.RP.A.1	6.2.1, 6.2.2, 6.2.3 , 6.2.4, 6.2.5 , 6.9.4	* video lesson is 6.2.3 & 6.2.5 combined
6.RP.A.2	6.2.10, 6.3.1, 6.3.5, 6.3.6, 6.3.7, 6.9.6	
6.RP.A.3	6.2.6 , 6.2.7, 6.2.10, 6.2.12, 6.2.13, 6.2.14, 6.2.15, 6.2.16, 6.2.17, 6.3.6, 6.3.7, 6.3.8, 6.3.9, 6.3.15, 6.9.4, 6.9.5, 6.9.6	
6.RP.A.3.a	6.2.11 , 6.2.12 , 6.2.13	* video lesson is 6.2.11 & 6.2.12 combined
6.RP.A.3.b	6.2.8 , 6.2.9 , 6.2.10, 6.3.5 , 6.3.6, 6.3.7, 6.3.8, 6.3.9, 6.6.16, 6.6.17	* video lesson is 6.2.8 & 6.2.9 combined
6.RP.A.3.c	6.3.10, 6.3.11 , 6.3.12, 6.3.13, 6.3.14, 6.3.15 , 6.3.16 , 6.6.7, 6.9.4, 6.9.6	
6.RP.A.3.d	6.3.3, 6.3.4 , 6.3.9	
6.SP.A	6.8.2	
6.SP.A.1	6.8.2, 6.8.3, 6.8.6, 6.8.7, 6.8.17	
6.SP.A.2	6.8.4, 6.8.5, 6.8.7, 6.8.8, 6.8.11, 6.8.18	
6.SP.A.3	6.8.6, 6.8.9, 6.8.10, 6.8.11	
6.SP.B	6.8.1, 6.8.2, 6.8.4, 6.8.5, 6.8.7, 6.8.9, 6.8.13, 6.8.18	

Standard	Lesson(s)	*videos linked for lessons that have one available
6.SP.B.4	6.8.3, 6.8.4, 6.8.5, 6.8.6, 6.8.7, 6.8.8, 6.8.16, 6.8.17	
6.SP.B.5	6.8.17	
6.SP.B.5.a	6.8.3, 6.8.4	
6.SP.B.5.b	6.8.2, 6.8.3, 6.8.5, 6.8.6, 6.8.7, 6.8.14	
6.SP.B.5.c	6.8.9, 6.8.10, 6.8.11, 6.8.12, 6.8.13, 6.8.14, 6.8.15, 6.8.16, 6.8.18	
6.SP.B.5.d	6.8.12, 6.8.14, 6.8.15, 6.8.16, 6.8.18	

Video Lessons 6th Grade

The Department, in partnership with Louisiana Public Broadcasting (LPB), Illustrative Math (IM), and SchoolKit selected 20 of the critical lessons in each grade level to broadcast on LPB in July of 2020. These lessons along with a few others are still available on demand on the SchoolKit website.

To ensure accessibility for students with disabilities, all recorded on-demand videos are available with closed captioning and audio description.

Lessons were identified using the following criteria:

1. the most critical content of the grade level
2. content that many students missed due to school closures in the 2019-20 school year

These lessons constitute only a portion of the critical lessons in each grade level. These lessons for 6th Grade are available at <http://schoolkitgroup.com/video-grade-6/>

The table below contains information on each of the 6th Grade lessons available for on-demand viewing with links to individual lessons embedded.

6th Grade Video Lesson List

6th Grade Illustrative Mathematics - Units 2, 3, 6, 7			
Unit	Number of Critical Lessons	Video Lessons Available	Lesson Title(s)
2 Introducing Ratios	17	3 and 5	Recipes and Defining Equivalent Ratios
		6	Introducing Double Number Line Diagrams
		8 and 9	How Much for One? and Constant Speed
		11 and 12	Representing Ratios with Tables and Navigating a Table of Equivalent Ratios
3 Unit Rate and Percentages	16	4	Converting Units
		5	Comparing Speeds and Prices
		11	Percentages and Double Number Lines
		15	Finding This Percent of That
		16	Finding the Percentage
6		1	Tape Diagrams and Equations
		2	Truth and Equations

Expressions and Equations 6 Expressions and Equations	16	<u>4</u>	Practice Solving Equations and Representing Situations with Equations
		<u>6</u>	Write Expressions Where Letters Stand for Numbers
		<u>8</u>	Equal and Equivalent
		<u>9</u>	The Distributive Property, Part 1
		<u>10</u>	The Distributive Property, Part 2
		<u>16 and 17</u>	Two Related Quantities, Part 1 and Part 2
7 Rational Numbers	18	<u>1</u>	Positive and Negative Numbers
		<u>2</u>	Points on the Number Line
		<u>3</u>	Comparing Positive and Negative Numbers
		<u>6</u>	Absolute Value of Numbers
		<u>11</u>	Points on the Coordinate Plane
		<u>13</u>	Interpreting Points on a Coordinate Plane
		<u>14</u>	Distances on a Coordinate Plane

7th Grade

Suggested Implementation Calendar³

Grade 7	Unit	Approximate # of Days	# of Lessons
weeks 1-3	Unit 1: Scale Drawings	15-16 days	13 lessons
weeks 4-7	Unit 2: Introducing Proportional Relationships	17-18 days	15 lessons
weeks 8-10	Unit 3: Measuring Circles	13-14 days	11 lessons
weeks 11-14	Unit 4: Proportional Relationships and Percentages	18-19 days	16 lessons
weeks 15-18	Unit 5: Rational Number Arithmetic	19-20 days	17 lessons
Administer Interim Form 1B			
weeks 19-23	Unit 6: Expressions, Equations, and Inequalities	26-27 days	22 lessons
weeks 24-27	Unit 7: Angles, Triangles, and Prisms	18 days	17 lessons
Administer Interim Form 2B			
weeks 28-32	Unit 8: Probability and Sampling	24-25 days	22 lessons
weeks 33-35	Unit 9: Putting It All Together <i>Optional Unit</i>	0-13 days	13 lessons
week 36	FLEX		

³ Adapted from guidance developed by Illustrative Mathematics

Alignment to Louisiana Student Standards for Mathematics⁴

Units of Study	Alignment to the Louisiana Student Standards for Mathematics (LSSM)
Unit 1: Scale Drawings	Aligned to LSSM
Unit 2: Introducing Ratio and Proportions	Aligned to LSSM
Unit 3: Measuring Circles	Aligned to LSSM
Unit 4: Proportional Relationships and Percentages	Aligned to LSSM
Unit 5: Rational Number Arithmetic	Aligned to LSSM
Unit 6: Expressions, Equations and Inequalities	Supplemental work should be added in Unit 6 for solving word problems leading to inequalities of the form $p + q < r$, and $p + q > r$. In addition, supplemental resources should be added specifically with multiple grouping symbols when adding, subtracting, factoring and expanding linear expressions with rational coefficients.
Unit 7: Angles, Triangles and Prisms	Supplemental work should be added in Unit 7 for solving real world and mathematical problems involving the surface area of pyramids.
Unit 8: Probability and Sampling	Aligned to LSSM
Unit 9: Putting It All Together	Aligned to LSSM

⁴ Developed in partnership with Illustrative Mathematics

Focus in the Standards

Not all content at given grades is emphasized equally in the standards. Some clusters require greater emphasis than others based on the depth of ideas, the time that they take to master, and/or their importance to future mathematics or the demands of college and career readiness. More time in these areas is also necessary for students to meet the Louisiana Standards for Mathematical Practices.

To say that some things have greater emphasis is not to say that anything in the standards can safely be neglected in instruction. Neglecting material will leave gaps in student skill and understanding and may leave students unprepared for the challenges of a later grade. Students should spend the large majority of their time on the major work on the grade (■). Supporting work (■) and, where appropriate, additional work (■) can engage students in the major work of the grade.

Grade 7: Standards by Unit								
Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Unit 7	Unit 8	Unit 9
7.G.A.1	7.G.A.1	7.G.A	7.RP.A.1	7.NS.A	7.EE.A.1	7.G.A	7.RP.A	7.EE.A.1
7.G.B.6	7.G.B.6	7.G.A.1	7.RP.A.2	7.NS.A.1	7.EE.A.2	7.G.A.2	7.SP.A	7.EE.B
	7.RP.A	7.G.A.2	7.RP.A.3	7.NS.A.1.a	7.EE.B.3	7.G.A.3	7.SP.A.1	7.EE.B.4
	7.RP.A.1	7.G.B	7.NS.A.2.d	7.NS.A.1.b	7.EE.B.4	7.G.B	7.SP.A.2	7.EE.B.4.a
	7.RP.A.2	7.G.B.4		7.NS.A.1.c	7.EE.B.4.a	7.G.B.5	7.SP.B	7.NS.A.2.d
	7.RP.A.2.a	7.G.B.6		7.NS.A.1.d	7.EE.B.4.b	7.G.B.6	7.SP.B.3	7.NS.A.3
	7.RP.A.2.b	7.RP.A.2		7.NS.A.2	7.NS.A.1	7.EE.A	7.SP.B.4	7.RP.A
	7.RP.A.2.c	7.RP.A.2.a		7.NS.A.2.a	7.NS.A.1.c	7.EE.B.4	7.SP.C	7.RP.A.1
	7.RP.A.2.d	7.RP.A.2.c		7.NS.A.2.b		7.NS.A.1	7.SP.C.5	7.RP.A.2
		7.RP.A.3		7.NS.A.2.c		7.RP.A	7.SP.C.6	7.RP.A.3
		7.EE.B.3		7.NS.A.2.d			7.SP.C.7	7.SP.B.4

Grade 7: Standards by Unit								
Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Unit 7	Unit 8	Unit 9
				7.NS.A.3 7.RP.A 7.RP.A.2 7.EE.B.3 7.EE.B.4 7.EE.B.4.a			7.SP.C.7.a 7.SP.C.7.b 7.SP.C.8.a 7.SP.C.8.b 7.SP.C.8.c 7.NS.A.2.d	7.G.A, 7.G.A.1 7.G.B 7.G.B.4 7.G.B.6

Standards by Lesson

Standard	Lesson(s)	*videos linked for lessons that have one available
7.EE.A	7.7.3	
7.EE.A.1	7.6.18, 7.6.19, 7.6.20, 7.6.21, 7.6.22, 7.9.7	
7.EE.A.2	7.6.12	
7.EE.B	7.9.8	
7.EE.B.3	7.3.11, 7.5.12, 7.5.17, 7.6.2, 7.6.3, 7.6.4, 7.6.5, 7.6.6, 7.6.11, 7.6.12	
7.EE.B.4	7.5.15, 7.6.5, 7.6.9, 7.6.11, 7.6.12, 7.6.13, 7.6.15, 7.7.5, 7.9.3	
7.EE.B.4.a	7.5.15, 7.5.16, 7.6.4, 7.6.5, 7.6.7, 7.6.8, 7.6.9, 7.6.10, 7.6.11, 7.6.12, 7.9.7	
7.EE.B.4.b	7.6.14, 7.6.16, 7.6.17	
7.G.A	7.3.2, 7.3.7, 7.7.1, 7.7.4, 7.7.9	
7.G.A.1	7.1.1, 7.1.2, 7.1.3, 7.1.4, 7.1.5, 7.1.6, 7.1.7, 7.1.8, 7.1.9, 7.1.10, 7.1.11, 7.1.12, 7.1.13, 7.2.1, 7.3.6, 7.3.11, 7.9.4, 7.9.13	
7.G.A.2	7.3.2, 7.7.6, 7.7.7, 7.7.8, 7.7.9, 7.7.10, 7.7.17	
7.G.A.3	7.7.11, 7.7.13	
7.G.B	7.3.6, 7.3.7, 7.7.1, 7.7.2, 7.7.4, 7.7.15, 7.7.16, 7.9.6	
7.G.B.4	7.3.3, 7.3.4, 7.3.5, 7.3.7, 7.3.8, 7.3.9, 7.3.10, 7.3.11, 7.9.4, 7.9.11, 7.9.12	
7.G.B.5	7.7.2, 7.7.3, 7.7.4, 7.7.5	
7.G.B.6	7.1.6, 7.2.8, 7.3.6, 7.7.12, 7.7.13, 7.7.14, 7.7.15, 7.7.16, 7.7.17, 7.9.4, 7.9.5, 7.9.9	

Standard	Lesson(s)	*videos linked for lessons that have one available
7.NS.A	7.5.13	* video lesson is 7.5.13 & 7.5.14 combined
7.NS.A.1	7.5.1 , 7.5.4 , 7.5.6 , 7.6.18, 7.7.6	* video lessons are 7.5.1 & 7.5.2 combined and 7.5.3 & 7.5.4 combined
7.NS.A.1.a	7.5.2 , 7.5.3	* video lessons are 7.5.1 & 7.5.2 combined and 7.5.3 & 7.5.4 combined
7.NS.A.1.b	7.5.1 , 7.5.2 , 7.5.3	* video lessons are 7.5.1 & 7.5.2 combined and 7.5.3 & 7.5.4 combined
7.NS.A.1.c	7.5.1 , 7.5.3 , 7.5.5 , 7.5.6 , 7.5.7, 7.6.18	* video lessons are 7.5.1 & 7.5.2 combined and 7.5.3 & 7.5.4 combined
7.NS.A.1.d	7.5.3	
7.NS.A.2	7.5.9 , 7.5.11	
7.NS.A.2.a	7.5.8 , 7.5.9	
7.NS.A.2.b	7.5.11	
7.NS.A.2.c	7.5.9, 7.5.10	
7.NS.A.2.d	7.4.5, 7.5.1 , 7.8.16, 7.9.4	* video lesson is 7.5.1 & 7.5.2 combined
7.NS.A.3	7.5.7, 7.5.12, 7.5.13 , 7.5.14 , 7.5.15, 7.5.16, 7.5.17, 7.9.3, 7.9.6	* video lesson is 7.5.13 & 7.5.14 combined
7.RP.A	7.2.5, 7.2.9, 7.2.11 , 7.2.14, 7.5.8 , 7.7.16, 7.8.4, 7.8.7, 7.8.16, 7.8.20, 7.9.6, 7.9.10, 7.9.11, 7.9.12, 7.9.13	
7.RP.A.1	7.2.8, 7.4.2, 7.4.3, 7.9.5	
7.RP.A.2	7.2.2, 7.2.3, 7.2.4 , 7.2.5, 7.2.6 , 7.2.7 , 7.2.8 , 7.2.9, 7.2.10, 7.2.11 , 7.2.12 , 7.2.13, 7.2.14, 7.2.15, 7.3.3, 7.4.3, 7.4.4, 7.4.5, 7.5.9 , 7.5.12, 7.5.14 , 7.9.3, 7.9.5	* video lesson is 7.5.13 & 7.5.14 combined
7.RP.A.2.a	7.2.2, 7.2.3, 7.2.10, 7.3.1, 7.3.3, 7.3.5, 7.3.7	
7.RP.A.2.b	7.2.2, 7.2.3, 7.2.5	
7.RP.A.2.c	7.2.4 , 7.2.5, 7.2.6 , 7.3.5	

Standard	Lesson(s)	*videos linked for lessons that have one available
7.RP.A.2.d	7.2.11	
7.RP.A.3	7.3.5, 7.4.6, 7.4.7, 7.4.8, 7.4.9, 7.4.10, 7.4.11, 7.4.12, 7.4.13, 7.4.14, 7.4.15, 7.4.16, 7.9.1, 7.9.2, 7.9.3, 7.9.4, 7.9.6, 7.9.8, 7.9.13	
7.SP.A	7.8.13, 7.8.16, 7.8.17, 7.8.20	
7.SP.A.1	7.8.12, 7.8.13, 7.8.14, 7.8.15, 7.8.20	
7.SP.A.2	7.8.13, 7.8.14, 7.8.15, 7.8.16, 7.8.17, 7.8.20	
7.SP.B	7.8.11, 7.8.12	
7.SP.B.3	7.8.11, 7.8.18	
7.SP.B.4	7.8.15, 7.8.16, 7.8.18, 7.8.19, 7.8.20, 7.9.3	
7.SP.C	7.8.6	
7.SP.C.5	7.8.2, 7.8.3, 7.8.4, 7.8.5, 7.8.6	
7.SP.C.6	7.8.1, 7.8.3, 7.8.4, 7.8.5, 7.8.6	
7.SP.C.7	7.8.3, 7.8.4, 7.8.5, 7.8.14	
7.SP.C.7.a	7.8.3, 7.8.20	
7.SP.C.7.b	7.8.4, 7.8.5, 7.8.6	
7.SP.C.8.a	7.8.9	
7.SP.C.8.b	7.8.8, 7.8.9	
7.SP.C.8.c	7.8.6, 7.8.7, 7.8.10	

Video Lessons 7th Grade

The Department, in partnership with Louisiana Public Broadcasting (LPB), Illustrative Math (IM), and SchoolKit selected 20 of the critical lessons in each grade level to broadcast on LPB in July of 2020. These lessons along with a few others are still available on demand on the SchoolKit website.

To ensure accessibility for students with disabilities, all recorded on-demand videos are available with closed captioning and audio description.

Lessons were identified using the following criteria:

1. the most critical content of the grade level
2. content that many students missed due to school closures in the 2019-20 school year

These lessons constitute only a portion of the critical lessons in each grade level. These lessons for 7th Grade are available at <http://schoolkitgroup.com/video-grade-7/>

The table below contains information on each of the 7th Grade lessons available for on-demand viewing with links to individual lessons embedded.

7th Grade Video Lesson List

7th Grade Illustrative Mathematics - Units 2, 5, 6, 7			
Unit	Number of Critical Lessons	Video Lessons	Lesson Title(s)
2 Introducing Proportional Relationships	15	4	Proportional Relationships and Equations
		6	Using Equations to Solve Problems
		7	Comparing Relationships with Tables
		8	Comparing Relationships with Equations
		10	Introducing Graphs of Proportional Relationships
		11	Interpreting Graphs of Proportional Relationships
		12	Using Graphs to Compare Relationships
5 Rational Number Arithmetic	17	1 and 2	Interpreting Negative Numbers
		3 and 4	Changing Elevation
		5	Representing Subtraction
		5	Representing Subtraction
		6	Subtracting Rational Numbers
		8	Position, Speed, and Direction

		<u>9</u>	Multiplying Rational Numbers
		<u>11</u>	Dividing Rational Numbers
		<u>13 and 14</u>	Expressions with Rational Numbers and Solving Problems with Rational Numbers
6 Expressions, Equations, and Inequalities	22	<u>10</u>	Different Options for Solving One Equation
		<u>11</u>	Using Equations to Solve Problems
		<u>18</u>	Subtraction in Equivalent Expressions
		<u>20</u>	Combining Like Terms (Part 1)
		<u>21</u>	Combining Like Terms (Part 2)
		<u>22</u>	Combining Like Terms (Part 3)
7 Angles, Triangles, and Prisms	17	<u>2</u>	Adjacent Angles
		<u>3</u>	Nonadjacent Angles
		<u>5</u>	Using Equations to Solve for Unknown Angles

8th Grade

Suggested Implementation Calendar⁵

Grade 8	Unit	Approximate # of Days	# of Lessons
weeks 1-4	Unit 1: Rigid Transformations and Congruence	19-20 days	17 lessons
weeks 5-7	Unit 2: Dilations, Similarity, and Introducing Slope	15-16 days	13 lessons
weeks 8-10	Unit 3: Linear Relationships	16-17 days	14 lessons
Administer Interim Form 1 -- Focus on Items 1, 3, 5, 7, 9, 11, 12, 14, 16, 17, 19, 22			
weeks 11-14	Unit 4: Linear Equations and Linear Systems	18-19 days	16 lessons
weeks 15-19	Unit 5: Functions and Volume	26-27 days	22 lessons
Administer Interim Form 2			
weeks 20-22	Unit 6: Associations in Data	13-14 days	11 lessons
weeks 23-26	Unit 7: Exponents and Scientific Notation	18-19 days	16 lessons
weeks 27-30	Unit 8: Pythagorean Theorem	17-18 days	15 lessons
weeks 31-33	Unit 9: Putting It All Together <i>Optional Unit</i>	0-10 days	2 lessons
weeks 34-36	FLEX		

⁵ Adapted from guidance developed by Illustrative Mathematics

Alignment to Louisiana Student Standards for Mathematics⁶

Units of Study	Alignment to the Louisiana Student Standards for Mathematics (LSSM)
Unit 1: Rigid Transformations and Congruence	Specific tasks in lesson 12 (Activity 2, question 2 and Activity 3 question 5) can be used as enrichment or are optional as they go beyond the scope of standard 8.G.3 regarding rotations about points other than the origin and /or reflections over lines other than the x- and y-axis.
Unit 2: Dilations, Similarity, and Introducing Slope	Specific tasks in lesson 4 (Activity 2, questions 1, 2, 6 and Activity 3, questions 1, 2, 6) and lesson 12 (Activity 3, all questions) can be used as enrichment or are optional as they go beyond the scope of the standard with rotations about points other than the origin, dilations using a center other than the origin, and /or reflections over lines other than the x- and y-axis.
Unit 3: Linear Relationships	Aligned to LSSM
Unit 4: Linear Equations and Linear Systems	Aligned to LSSM
Unit 5: Functions and Volume	Aligned to LSSM
Unit 6: Associations in Data	Aligned to LSSM
Unit 7: Exponents and Scientific Notation	Aligned to LSSM
Unit 8: Pythagorean Theorem and Irrational Numbers	Aligned to LSSM
Unit 9: Putting It All Together	Aligned to LSSM

⁶ Developed in partnership with Illustrative Mathematics

Focus in the Standards

Not all content at given grades is emphasized equally in the standards. Some clusters require greater emphasis than others based on the depth of ideas, the time that they take to master, and/or their importance to future mathematics or the demands of college and career readiness. More time in these areas is also necessary for students to meet the Louisiana Standards for Mathematical Practices.

To say that some things have greater emphasis is not to say that anything in the standards can safely be neglected in instruction. Neglecting material will leave gaps in student skill and understanding and may leave students unprepared for the challenges of a later grade. Students should spend the large majority of their time on the major work on the grade (). Supporting work () and, where appropriate, additional work () can engage students in the major work of the grade.

Grade 8: Standards by Unit								
Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Unit 7	Unit 8	Unit 9
8.G.A.1	8.G.A	8.EE.B	8.EE.C	8.F.A	8.SP.A	8.EE.A.1	8.NS.A	8.F.A.1
8.G.A.1.a	8.G.A.2	8.EE.B.5	8.EE.C.7	8.F.A.1	8.SP.A.1	8.EE.A.3	8.NS.A.1	8.F.B
8.G.A.1.b	8.G.A.3	8.EE.B.6	8.EE.C.7.a	8.F.A.2	8.SP.A.2	8.EE.A.4	8.NS.A.2	8.SP.A
8.G.A.1.c	8.G.A.4	8.EE.C	8.EE.C.7.b	8.F.A.3	8.SP.A.3		8.F.B	8.G.A
8.G.A.2	8.G.A.5	8.EE.C.8.a	8.EE.C.8	8.F.B	8.SP.A.4		8.EE.A	8.G.A.5
8.G.A.3	8.EE.B.6	8.G.A.1	8.EE.C.8.a	8.F.B.4			8.EE.A.2	
8.G.A.5			8.EE.C.8.b	8.F.B.5			8.G.B	
				8.G.C			8.G.B.6	
				8.G.C.9			8.G.B.7	
							8.G.B.8	

Standards by Lesson

Standard	Lesson(s)	*videos linked for lessons that have one available
8.EE.A	8.8.14	
8.EE.A.1	8.7.2, 8.7.3, 8.7.4, 8.7.5, 8.7.6, 8.7.7, 8.7.8, 8.7.11, 8.7.14	
8.EE.A.2	8.8.2, 8.8.3, 8.8.4, 8.8.5, 8.8.10, 8.8.12, 8.8.13	
8.EE.A.3	8.7.9, 8.7.10, 8.7.11, 8.7.12, 8.7.14, 8.7.16	
8.EE.A.4	8.7.10, 8.7.11, 8.7.12, 8.7.13, 8.7.14, 8.7.15, 8.7.16	
8.EE.B	8.3.1, 8.3.2, 8.3.3, 8.3.4, 8.3.5, 8.3.6, 8.3.7, 8.3.8, 8.3.9, 8.3.10, 8.3.11, 8.3.12	
8.EE.B.5	8.3.2, 8.3.3, 8.3.4, 8.3.6	
8.EE.B.6	8.2.10, 8.2.11, 8.2.12, 8.3.7, 8.3.10, 8.3.11, 8.3.14	
8.EE.C	8.3.12, 8.3.13, 8.4.2, 8.4.3, 8.4.4, 8.4.5, 8.4.9 , 8.4.10	* video lesson is 8.4.9 & 8.4.10 combined
8.EE.C.7	8.4.3 , 8.4.4 , 8.4.5 , 8.4.6, 8.4.9	* video lessons are 8.4.4 & 8.4.5 combined and 8.4.9 & 8.4.10 combined
8.EE.C.7.a	8.4.7, 8.4.8	
8.EE.C.7.b	8.4.6	
8.EE.C.8	8.4.9 , 8.4.10 , 8.4.11, 8.4.12 , 8.4.13 , 8.4.14 , 8.4.15 , 8.4.16	* video lessons are 8.4.9 & 8.4.10 combined and 8.4.13 & 8.4.14 combined
8.EE.C.8.a	8.3.13, 8.3.14, 8.4.12, 8.4.13	* video lesson is 8.4.13 & 8.4.14 combined
8.EE.C.8.b	8.4.12 , 8.4.15	
8.F.A	8.5.3 , 8.5.22	* video lesson is 8.5.2 & 8.5.3 combined

Standard	Lesson(s)	*videos linked for lessons that have one available
8.F.A.1	8.5.1, 8.5.2 , 8.5.3 , 8.5.4 , 8.5.5 , 8.5.17, 8.9.1	* video lesson is 8.5.2 & 8.5.3 combined
8.F.A.2	8.5.7, 8.5.8	
8.F.A.3	8.5.4 , 8.5.7, 8.5.8, 8.5.18	
8.F.B	8.5.10, 8.5.11, 8.5.17, 8.5.18, 8.8.2, 8.9.1	
8.F.B.4	8.5.8, 8.5.9, 8.5.10, 8.5.11	
8.F.B.5	8.5.5 , 8.5.6, 8.5.10	
8.G.A	8.1.17, 8.2.1, 8.2.2, 8.2.3, 8.2.4, 8.2.5, 8.2.8, 8.2.9, 8.2.11, 8.2.12, 8.9.2	
8.G.A.1	8.1.2, 8.1.3, 8.1.4, 8.1.6, 8.1.11, 8.1.14, 8.3.8	
8.G.A.1.a	8.1.7, 8.1.8, 8.1.9, 8.1.10, 8.1.13	
8.G.A.1.b	8.1.7, 8.1.8, 8.1.9, 8.1.10	
8.G.A.1.c	8.1.9	
8.G.A.2	8.1.11, 8.1.12, 8.1.13, 8.1.15, 8.2.6, 8.2.7	
8.G.A.3	8.1.5, 8.1.6, 8.2.4, 8.2.5, 8.2.12	
8.G.A.4	8.2.6, 8.2.7, 8.2.9	
8.G.A.5	8.1.14, 8.1.15, 8.1.16, 8.2.8, 8.2.13, 8.9.2	
8.G.B	8.8.6, 8.8.7, 8.8.9	
8.G.B.6	8.8.7, 8.8.9	
8.G.B.7	8.8.6, 8.8.7, 8.8.8, 8.8.10	

Standard	Lesson(s)	*videos linked for lessons that have one available
8.G.B.8	8.8.11	
8.G.C	8.5.12, 8.5.17, 8.5.19, 8.5.20	
8.G.C.9	8.5.13, 8.5.14, 8.5.15, 8.5.16, 8.5.17, 8.5.18, 8.5.19, 8.5.20, 8.5.21, 8.5.22	
8.NS.A	8.8.2, 8.8.3, 8.8.10, 8.8.14	
8.NS.A.1	8.8.14, 8.8.15	
8.NS.A.2	8.8.1, 8.8.4, 8.8.5, 8.8.12, 8.8.13	
8.SP.A	8.6.11, 8.9.1	
8.SP.A.1	8.6.1, 8.6.2, 8.6.3, 8.6.4, 8.6.5, 8.6.6, 8.6.7, 8.6.8	
8.SP.A.2	8.6.4, 8.6.5, 8.6.6, 8.6.8	
8.SP.A.3	8.6.6, 8.6.8	
8.SP.A.4	8.6.9, 8.6.10	

Video Lessons 8th Grade

The Department, in partnership with Louisiana Public Broadcasting (LPB), Illustrative Math (IM), and SchoolKit selected 20 of the critical lessons in each grade level to broadcast on LPB in July of 2020. These lessons along with a few others are still available on demand on the SchoolKit website.

To ensure accessibility for students with disabilities, all recorded on-demand videos are available with closed captioning and audio description.

Lessons were identified using the following criteria:

1. the most critical content of the grade level
2. content that many students missed due to school closures in the 2019-20 school year

These lessons constitute only a portion of the critical lessons in each grade level. These lessons for 8th Grade are available at <http://schoolkitgroup.com/video-grade-8/>

The table below contains information on each of the 8th Grade lessons available for on-demand viewing with links to individual lessons embedded.

8th Grade Video Lesson List

8th Grade Illustrative Mathematics - Units 4, 5, 6, 7, 8			
Unit	Number of Critical Lessons	Video Lessons	Lesson Title(s)
4 Linear Equations and Linear Systems	16	3	Balanced Moves
		4 and 5	More Balanced Moves
		9 and 10	When Are They the Same?
		12	Systems of Equations
		13 and 14	Solving Systems of Equations
		15	Writing Systems of Equations
5 Functions and Volume	17	2 and 3	Introduction to Functions and Equations for Functions
		4	Tables, Equations
		5	More Graphs of Functions
		8	Linear Functions
		9 and 10	Linear Models

6 Associations in Data	10	<u>3</u>	What a Point in a Scatter Plot Means
		<u>4</u>	Fitting a Line to Data
		<u>5</u>	Describing Trends in Scatter Plots
		<u>6</u>	The Slope of a Fitted Line
7 Exponents and Scientific Notation	16	<u>2</u>	Multiplying Powers of Ten
		<u>3</u>	Powers of Powers of 10
		<u>4</u>	Dividing Powers of 10
		<u>5 and 6</u>	Negative Exponents with Powers of 10 and What about Other Bases?
		<u>8</u>	Combining Bases
8 Pythagorean Theorem and Irrational Numbers	15	<u>1</u>	The Areas of Squares and Their Side Lengths
		<u>2</u>	Side Lengths and Areas
		<u>3</u>	Rational and Irrational Numbers
		<u>5</u>	Reasoning About Square Roots

Administrator Guidance

Suggested Implementation Calendar (compiled grade levels)⁷

	Grade 6	Grade 7	Grade 8
week 1	Unit 1 Area and Surface Area (22-23 days) 19 lessons	Unit 1 Scale Drawings (15-16 days) 13 lessons	Unit 1 Rigid Transformations and Congruence (19-20 days) 17 lessons
week 2			
week 3		Unit 2 Introducing Proportional Relationships (17-18 days) 15 lessons	Unit 2 Dilations, Similarity, and Introducing Slope (15-16 days) 13 lessons
week 4			
week 5			
week 6	Unit 2 Introducing Ratios (18-19 days) 17 lessons	Unit 3 Measuring Circles (13-14 days) 11 lessons	Unit 3 Linear Relationships (16-17 days) 14 lessons Administer Interim Form 1 Items 1, 3, 5, 7, 9, 11, 12, 14, 16, 17, 19, 22
week 7			
week 8		Unit 4 Proportional Relationships and	Unit 4 Linear Equations and Linear Systems
week 9			
week 10	Unit 3 Unit Rates and Percentages (18-19 days) 17 lessons Administer Interim Form 1B Items 6, 13, 17, 18, 19, 20, 21, 23	Unit 4 Proportional Relationships and	Unit 4 Linear Equations and Linear Systems
week 11			
week 12			

⁷ Developed by Illustrative Mathematics

week 13		Percentages (18-19 days) 16 lessons	(18-19 days) 16 lessons
week 14	Unit 4 Dividing Fractions (20-21 days) 17 lessons	Unit 5 Rational Number Arithmetic (19-20 days) 17 lessons Administer Interim Form 1B	Unit 5 Functions and Volume (26-27 days) 22 lessons Administer Interim Form 2
week 15			
week 16			
week 17			
week 18	Unit 5 Arithmetic in Base Ten (16-18 days) 15 lessons	Unit 6 Expressions, Equations, and Inequalities (26-27 days) 22 lessons	Unit 6 Associations in Data (13-14 days) 11 lessons
week 19			
week 20			
week 21			
week 22	Unit 6 Expressions and Equations (20-25 days) 18 lessons Administer Interim Form 2B	Unit 7 Angles, Triangles, and Prisms (18 days) 17 lessons Administer Interim Form 2B	Unit 7 Exponents and Scientific Notation (18-19 days) 16 lessons
week 23			
week 24			
week 25			
week 26	Unit 7 Rational Numbers (20-21 days) 18 lessons	Unit 8 Probability and Sampling (24-25 days) 22 lessons	Unit 8 Pythagorean Theorem and Irrational Numbers (17-18 days) 15 lessons
week 27			
week 28			
week 29			
week 30			

week 31	Unit 8 Data Sets and Distributions (19-20 days) 18 lessons		Unit 9 Putting It All Together <i>Optional Unit</i> (0-10 days) 2 lessons
week 32			
week 33		Unit 9 Putting It All Together <i>Optional Unit</i> (0-13 days) 13 lessons	FLEX
week 34			
week 35	Unit 9 Putting It All Together <i>Optional Unit</i> (0-10 days) 6 lessons		
week 36		FLEX	

Curriculum Implementation Observation Tool: Illustrative Mathematics

Observer:

Curriculum:

Date:

Highly effective math classrooms are those in which students:

- Engage with a **Tier 1 curriculum** regularly and effectively (Priority 1)
- Receive appropriate and timely supports that allow them to spend a majority of their time in on-grade-level work (Priority 2)
- Spend the bulk of their time doing math and talking about math (Priority 3)

Observer Actions	Look-Fors	Teacher 1 (y/n)	Teacher 2 (y/n)	Teacher 3 (y/n)
Indicator 1: Students use the instructional materials every day	A. Tier 1 curricular materials are present in the classroom.			
	B. Teachers are enacting the Tier 1 curriculum as intended. During the walk-through, use a smartphone or tablet to pull up the teacher version of the lesson (e.g. Illustrative Mathematics can be found on the Open Up Resources website). Is the teacher following discussion notes or prompts in the curriculum, using examples from the curriculum, and/or having students work problems from the curriculum? <i>Note: Teacher should be teaching an on-grade level lesson. See Standards by Lesson on pages 6, 14, 20 of the Louisiana Guide to Implementing Illustrative Mathematics.</i>			
	C. Students are consistently doing the math to the level demanded by the Tier 1 curriculum. Flip through student workbooks to determine if students have used the materials consistently over time.			
	D. Pacing is on schedule so that students will engage with the full curriculum during the school year. <i>See calendars on pages 3, 10, and 17 of the Louisiana Guide to Implementing Illustrative Mathematics.</i>			

Indicator 2: Students receive appropriate and timely supports that allow them to spend a majority of their time in on-grade-level work	E. Curriculum-recommended supports/scaffolds are being used for students who are struggling with the math or who have special needs.			
Indicator 3: Students spend the bulk of their time doing math and talking about math	F. Students spending a majority of the time actively doing math, not just watching the teacher or copying math on the board.			
	G. Students have multiple opportunities to talk about their mathematical thinking build on each other's reasoning.			

Purchasing Guidance

Illustrative Mathematics is freely available in PDF format through [Open Up Resources](#).

Presently, there are two vendors who provide professional development and print packages for purchase.

1. Open Up Resources can be reached by filling out this [contact form](#).
2. LearnZillion can be reached by filling out this [contact form](#).