

# Louisiana Believes

## **Louisiana Guide to Implementing Illustrative Mathematics: Algebra I and Geometry**

To assist teachers with the implementation of the Illustrative Mathematics curriculum for Algebra I and Geometry, this document provides multiple layers of guidance regarding how Illustrative Mathematics lessons correlate with the Louisiana Student Standards for Mathematics (LSSM). Illustrative Mathematics is a 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 [classroomsupporttoolbox@la.gov](mailto:classroomsupporttoolbox@la.gov) so that we may use your input when updating this guide.



Updated on August 11, 2020

## Table of Contents

Algebra I .....	3
Suggested Implementation Calendar .....	3
Alignment to Louisiana Student Standards for Mathematics .....	4
Focus in the Standards .....	5
Standards by Lesson .....	7
Video Lessons Algebra I .....	12
Algebra I Video Lesson List .....	13
Geometry .....	15
Suggested Implementation Calendar .....	15
Alignment to Louisiana Student Standards for Mathematics .....	16
Focus in the Standards .....	17
Standards by Lesson .....	18

## Algebra I

### Suggested Implementation Calendar<sup>1</sup>

Algebra I	Unit	Approximate Timeframe	Number of Lessons	Additional Notes
<b>Administer Algebra I LEAP 360 Diagnostic</b> The <a href="#">Illustrative Math LEAP 360 Diagnostic Mapping</a> can also be used to support teachers in identifying where students may have unfinished learning and need additional supports.				
Weeks 2-4	Unit 1: One-Variable Statistics	10-12 days	16 lessons	Optional Lesson(s): 2, 5, 6, 7, 8
Weeks 5-10	Unit 2: Linear Equations, Inequalities, and Systems	29-31 days	26 lessons	Optional Lesson(s): None
Weeks 11-12	Unit 3: Two-Variable Statistics	11-12 days	10 lessons	Optional Lesson(s): 10
Weeks 13-17	Unit 4: Functions	21-22 days	18 lessons	Optional Lesson(s): 5, 15, 16, 17
<b>Administer Algebra I LEAP 360 Interim Form 1</b>				
Weeks 18-22	Unit 5: Introduction to Exponential Functions	23-25 days	21 lessons	Optional Lesson(s): 14
Weeks 23-26	Unit 6: Introduction to Quadratic Functions	19-21 days	17 lessons	Optional Lesson(s): 13
Weeks 27-32	Unit 7: Quadratic Equations	28-29 days	24 lessons	Optional Lessons(s): None

<sup>1</sup> Adapted from guidance developed by Illustrative Mathematics

Algebra I	Unit	Approximate Timeframe	Number of Lessons	Additional Notes
Administer Algebra I LEAP 360 Interim Form 2				
Week 33	Reserved for state testing (dates will vary)			
Weeks 34-36	To best prepare your students for success in future math courses, use this time to continue pursuing mastery of A1: A-REI.B.4a. If students have mastered completing the square, a review of Grade 8 Geometry standards may prove advantageous for preparing students for future success.			

### Alignment to Louisiana Student Standards for Mathematics<sup>2</sup>

Units of Study	Alignment to the Louisiana Student Standards for Mathematics (LSSM)
Unit 1: One-Variable Statistics	Aligned to LSSM
Unit 2: Linear Equations, Inequalities, and Systems	Aligned to LSSM
Unit 3: Two-Variable Statistics	Aligned to LSSM
Unit 4: Functions	Lessons 15-17 focus on inverse functions which align to Algebra II content standard A2:F-BF.B.4. These lessons can be reserved for after statewide testing.
Unit 5: Introduction to Exponential Functions	Aligned to LSSM
Unit 6: Introduction to Quadratic Functions	Aligned to LSSM

<sup>2</sup> Developed in partnership with Illustrative Mathematics

Units of Study	Alignment to the Louisiana Student Standards for Mathematics (LSSM)
Unit 7: Quadratic Equations	Aligned to LSSM; Activities in Lesson 24 requiring students to solve a simple system consisting of a linear equation and a quadratic equation in two variables algebraically go beyond the scope of the LSSM in Algebra I. These activities can be reserved for after statewide testing.

### 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.

Algebra I: Standards by Unit						
Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Unit 7
A1: S-ID.A.2 A1: S-ID.A.3	A1: A-CED.A.1 A1: A-CED.A.2 A1: A-CED.A.3 A1: A-CED.A.4 A1: N-Q.A.2 A1: F-LE.A.2 A1: A-SSE.A.1 A1: A-REI.A.1	A1: S-ID.B.5 A1: S-ID.B.6 A1: S-ID.B.6a A1: S-ID.B.6b A1: S-ID.B.6c A1: S-ID.C.7 A1: S-ID.C.8 A1: S-ID.C.9	A1: N-Q.A A1: N-Q.A.2 A1: F-IF.A.1 A1: F-IF.A.2 A1: F-IF.B A1: F-IF.B.4 A1: F-IF.B.5 A1: F-IF.B.6	A1: A-CED.A.2 A1: A-SSE.A A1: A-SSE.A.1 A1: A-SSE.A.1b A1: A-SSE.B.3c A1: F-BF.A A1: F-BF.A.1 A1: F-BF.A.1a	A1: A-SSE.A A1: A-SSE.A.1 A1: A-SSE.A.2 A1: A-SSE.B.3 A1: F-BF.A A1: F-BF.A.1 A1: F-BF.A.1.a A1: F-BF.B.3	A1: A-CED.A.1 A1: A-CED.A.2 A1: A-CED.A.3 A1: A-REI.A A1: A-REI.A.1 A1: A-REI.B.4 A1: A-REI.B.4.a A1: A-REI.B.4.b

Algebra I: Standards by Unit						
Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Unit 7
	A1: A-REI.B.3 A1: A-REI.D.10 A1: A-REI.C.5 A1: A-REI.C.6 A1: A-REI.D.12	A1: N-Q.A.3	A1: F-IF.C A1: F-IF.C.7 A1: F-IF.C.7b A1: F-BF.A.1 A1: F-BF.A.1a A1: F-BF.B.3 A1: S-ID.B.6 A1: S-ID.B.6a A1: S-ID.B.6c A1: A-SSE.A.1 A1: A-REI.A.1 A1: A-REI.D.11 A1: A-CED.A.4	A1: F-IF.A.2 A1: F-IF.B A1: F-IF.B.4 A1: F-IF.B.5 A1: F-IF.B.6 A1: F-IF.C.7 A1: F-IF.C.7e A1: F-LE.A.1 A1: F-LE.A.1a A1: F-LE.A.1b A1: F-LE.A.1c A1: F-LE.A.2 A1: F-LE.A.3 A1: F-LE.B.5 A1: N-Q.A.1 A1: N-Q.A.2 A1: N-Q.A.3 A1: S-ID.B.6a	A1: F-IF.A.2 A1: F-IF.B.4 A1: F-IF.B.5 A1: F-IF.C A1: F-IF.C.7 A1: F-IF.C.7.a A1: F-IF.C.8 A1: F-IF.C.8.a A1: F-IF.C.9 A1: F-LE.A A1: F-LE.A.2 A1: F-LE.A.3	A1: A-REI.D A1: A-REI.D.10 A1: A-SSE.A A1: A-SSE.A.2 A1: A-SSE.B.3 A1: A-SSE.B.3.a A1: A-SSE.B.3.b A1: F-IF.A.2 A1: F-IF.B.4 A1: F-IF.B.5 A1: F-IF.C A1: F-IF.C.7.a A1: F-IF.C.8.a A1: F-IF.C.9 A1: N-Q.A A1: N-RN.B.3

## Standards by Lesson

Standard	Lesson(s)	*videos linked for lessons that have one available
A1: A-CED.A.1	Alg1.2.20, Alg1.7.1, <a href="#">Alg1.7.17</a> , Alg1.7.18	
A1: A-CED.A.2	Alg1.2.1, Alg1.2.2, Alg1.2.3, Alg1.2.5, Alg1.2.6, Alg1.2.23, Alg1.5.3, Alg1.5.4, Alg1.5.5, Alg1.5.6, Alg1.5.7, <a href="#">Alg1.7.2</a>	
A1: A-CED.A.3	Alg1.2.1, Alg1.2.2, Alg1.2.3, Alg1.2.5, Alg1.2.9, Alg1.2.10, Alg1.2.12, Alg1.2.17, Alg1.2.18, Alg1.2.20, Alg1.2.22, Alg1.2.23, Alg1.2.24, Alg1.2.26	
A1: A-CED.A.4	Alg1.2.8, Alg1.2.9, Alg1.2.10, Alg1.2.11, Alg1.4.16	
A1: A-REI.A	Alg1.2.4, Alg1.2.7, Alg1.2.12, Alg1.7.13, <a href="#">Alg1.7.17</a>	
A1: A-REI.A.1	Alg1.2.6, Alg1.2.7, Alg1.4.5, Alg1.7.3, <a href="#">Alg1.7.5</a>	
A1: A-REI.B.3	Alg1.2.4, Alg1.2.8, Alg1.2.9, Alg1.2.19, Alg1.2.20	
A1: A-REI.B.4	<a href="#">Alg1.7.2</a> , <a href="#">Alg1.7.4</a> , <a href="#">Alg1.7.5</a>	
A1: A-REI.B.4.a	<a href="#">Alg1.7.12</a> , Alg1.7.14, <a href="#">Alg1.7.15</a> , Alg1.7.19	
A1: A-REI.B.4.b	Alg1.7.3, <a href="#">Alg1.7.5</a> , <a href="#">Alg1.7.9</a> , Alg1.7.10, <a href="#">Alg1.7.11</a> , <a href="#">Alg1.7.12</a> , <a href="#">Alg1.7.13</a> , Alg1.7.14, <a href="#">Alg1.7.15</a> , <a href="#">Alg1.7.16</a> , <a href="#">Alg1.7.17</a> , Alg1.7.18, Alg1.7.20, Alg1.7.21, Alg1.7.24	
A1: A-REI.C.5	Alg1.2.16	
A1: A-REI.C.6	Alg1.2.12, Alg1.2.13, Alg1.2.14, Alg1.2.15, Alg1.2.16, Alg1.2.17	
A1: A-REI.C.7	Alg1.7.24 ( <i>Aligned to Algebra II standards</i> )	
A1: A-REI.D	<a href="#">Alg1.7.5</a> , Alg1.7.10, <a href="#">Alg1.7.15</a>	
A1: A-REI.D.10	Alg1.2.5, Alg1.2.10, Alg1.2.11, Alg1.2.22, <a href="#">Alg1.7.5</a>	

Standard	Lesson(s)	*videos linked for lessons that have one available
A1: A-REI.D.11	Alg1.4.9	
A1: A-REI.D.12	Alg1.2.21, Alg1.2.22, Alg1.2.23, Alg1.2.24, Alg1.2.25, Alg1.2.26	
A1: A-SSE.A	Alg1.5.9, Alg1.5.17, <a href="#">Alg1.6.8</a> , <a href="#">Alg1.6.11</a> , Alg1.7.10, <a href="#">Alg1.7.12</a> , <a href="#">Alg1.7.16</a>	
A1: A-SSE.A.1	Alg1.2.6, Alg1.2.23, Alg1.4.18, Alg1.5.4, Alg1.5.7, Alg1.5.17, <a href="#">Alg1.6.2</a> , <a href="#">Alg1.6.3</a>	
A1: A-SSE.A.1.b	Alg1.5.18	
A1: A-SSE.A.2	<a href="#">Alg1.6.8</a> , <a href="#">Alg1.6.9</a> , <a href="#">Alg1.7.6</a> , <a href="#">Alg1.7.7</a> , <a href="#">Alg1.7.8</a> , Alg1.7.10, <a href="#">Alg1.7.11</a> , <a href="#">Alg1.7.12</a> , Alg1.7.14, Alg1.7.19, Alg1.7.22	
A1: A-SSE.B.3	<a href="#">Alg1.6.2</a> , <a href="#">Alg1.6.8</a> , <a href="#">Alg1.6.9</a> , <a href="#">Alg1.6.10</a> , Alg1.6.13, Alg1.7.22	
A1: A-SSE.B.3.a	<a href="#">Alg1.7.9</a>	
A1: A-SSE.B.3.b	Alg1.7.22, Alg1.7.23	
A1: A-SSE.B.3.c	Alg1.5.18	
A1: F-BF.A	Alg1.6.17	
A1: F-BF.A.1	Alg1.4.17, Alg1.4.18, Alg1.5.11, Alg1.5.15, Alg1.5.17, <a href="#">Alg1.6.6</a>	
A1: F-BF.A.1.a	Alg1.4.4, Alg1.4.14, Alg1.5.2, Alg1.5.3, Alg1.5.4, Alg1.5.15, Alg1.5.16, Alg1.5.17, <a href="#">Alg1.6.1</a> , <a href="#">Alg1.6.2</a> , <a href="#">Alg1.6.3</a> , <a href="#">Alg1.6.4</a> , <a href="#">Alg1.6.5</a> , <a href="#">Alg1.6.6</a> , Alg1.6.7	
A1: F-BF.B.3	Alg1.4.14, Alg1.6.12, Alg1.6.13, Alg1.6.15, Alg1.6.17	
A1: F-BF.B.4	Alg1.4.15, Alg1.4.16, Alg1.4.17 ( <i>Aligned to Algebra II standards</i> )	
A1: F-BF.B.4.a	Alg1.4.17 ( <i>Aligned to Algebra II standards</i> )	
A1: F-IF.A.1	Alg1.4.1, Alg1.4.2, Alg1.4.4	



Standard	Lesson(s)	*videos linked for lessons that have one available
A1: F-IF.A.2	Alg1.4.2, Alg1.4.3, Alg1.4.4, Alg1.4.5, Alg1.4.12, Alg1.4.17, Alg1.5.8, Alg1.5.9, Alg1.5.11, Alg1.5.17, Alg1.5.18, Alg1.5.19, <a href="#">Alg1.6.3</a> , <a href="#">Alg1.6.5</a> , <a href="#">Alg1.6.14</a> , Alg1.7.18	
A1: F-IF.B	Alg1.4.10, Alg1.4.18, Alg1.5.8	
A1: F-IF.B.4	Alg1.4.1, Alg1.4.2, Alg1.4.3, Alg1.4.4, Alg1.4.5, Alg1.4.6, Alg1.4.8, Alg1.4.9, Alg1.4.11, Alg1.4.17, Alg1.4.18, Alg1.5.1, Alg1.5.2, Alg1.5.5, Alg1.5.6, Alg1.5.11, Alg1.5.12, Alg1.5.13, Alg1.5.19, <a href="#">Alg1.6.14</a> , Alg1.6.17, Alg1.7.10	
A1: F-IF.B.5	Alg1.4.10, Alg1.4.11, Alg1.4.12, Alg1.5.8, Alg1.5.9, Alg1.5.11, Alg1.5.19, <a href="#">Alg1.6.6</a> , Alg1.6.7, <a href="#">Alg1.7.17</a>	
A1: F-IF.B.6	Alg1.4.7, Alg1.4.8, Alg1.4.9, Alg1.4.18, Alg1.5.10, Alg1.5.15	
A1: F-IF.C	Alg1.4.4, Alg1.4.12, Alg1.4.13, Alg1.4.14, <a href="#">Alg1.6.4</a> , <a href="#">Alg1.6.6</a> , Alg1.6.12, Alg1.6.15, Alg1.6.16, Alg1.6.17, Alg1.7.22, Alg1.7.23	
A1: F-IF.C.7	Alg1.4.12, Alg1.5.8, Alg1.6.12, Alg1.6.13	
A1: F-IF.C.7.a	<a href="#">Alg1.6.6</a> , Alg1.6.7, <a href="#">Alg1.6.11</a> , Alg1.6.13, <a href="#">Alg1.6.14</a> , Alg1.6.15, Alg1.6.16, Alg1.6.17, Alg1.7.20	
A1: F-IF.C.7.b	Alg1.4.12, Alg1.4.13, Alg1.4.14	
A1: F-IF.C.7.e	Alg1.5.9, Alg1.5.15	
A1: F-IF.C.8	Alg1.5.18, <a href="#">Alg1.6.14</a>	
A1: F-IF.C.8.a	Alg1.7.24	
A1: F-IF.C.8.b	Alg1.5.18	
A1: F-IF.C.9	Alg1.6.14, Alg1.7.23	
A1: F-LE.A.1	Alg1.5.11, Alg1.5.17, Alg1.5.19, Alg1.5.21	
A1: F-LE.A.1.a	Alg1.5.20	

Standard	Lesson(s)	*videos linked for lessons that have one available
A1: F-LE.A.1.b	Alg1.5.20, Alg1.5.21	
A1: F-LE.A.1.c	Alg1.5.11, Alg1.5.21	
A1: F-LE.A.2	Alg1.5.8, Alg1.5.9, Alg1.5.11, Alg1.5.13, Alg1.5.15, Alg1.5.17, Alg1.5.19, Alg1.5.20, Alg1.5.21, Alg1.6.12	
A1: F-LE.A.3	Alg1.5.1, Alg1.5.19, <a href="#">Alg1.6.4</a>	
A1: F-LE.B.5	Alg1.5.3, Alg1.5.4, Alg1.5.5, Alg1.5.11, Alg1.5.12, Alg1.5.13, Alg1.5.17	
A1: N-Q.A	Alg1.4.8, <a href="#">Alg1.7.2</a>	
A1: N-Q.A.1	Alg1.5.7, Alg1.5.8, Alg1.5.11	
A1: N-Q.A.2	Alg1.2.1, Alg1.2.26, Alg1.4.8, Alg1.5.17	
A1: N-Q.A.3	Alg1.3.6, Alg1.5.11, Alg1.5.21	
A1: N-RN.B	Alg1.7.21	
A1: N-RN.B.3	Alg1.7.20, Alg1.7.21	
A1: S-ID.A	Alg1.1.16, Alg1.3.9	
A1: S-ID.A.1	Alg1.1.2, Alg1.1.3, Alg1.1.4, Alg1.1.9, Alg1.1.10, Alg1.1.14, Alg1.1.15, Alg1.1.16	
A1: S-ID.A.2	Alg1.1.9, Alg1.1.10, Alg1.1.11, Alg1.1.12, Alg1.1.13, Alg1.1.14, Alg1.1.15, Alg1.1.16	
A1: S-ID.A.3	Alg1.1.10, Alg1.1.12, Alg1.1.14, Alg1.1.15, Alg1.1.16	
A1: S-ID.B.5	Alg1.3.1, Alg1.3.2, Alg1.3.3, Alg1.3.9	
A1: S-ID.B.6	Alg1.3.4, Alg1.3.7, Alg1.3.8, Alg1.3.9, Alg1.3.10	
A1: S-ID.B.6.a	Alg1.3.4, Alg1.3.6, Alg1.3.8, Alg1.4.17, Alg1.4.18, Alg1.5.11, Alg1.5.21	

Standard	Lesson(s)	*videos linked for lessons that have one available
A1: S-ID.B.6.b	Alg1.3.6	
A1: S-ID.B.6.c	Alg1.3.5, Alg1.3.6, Alg1.4.17, Alg1.4.18	
A1: S-ID.C.7	Alg1.3.4, Alg1.3.5, Alg1.3.8, Alg1.3.9, Alg1.3.10	
A1: S-ID.C.8	Alg1.3.7, Alg1.3.8, Alg1.3.9, Alg1.3.10	
A1: S-ID.C.9	Alg1.3.9, Alg1.3.10	

## Video Lessons Algebra I

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 Algebra I are available at <http://schoolkitgroup.com/video-algebra/>

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

## Algebra I Video Lesson List

Algebra I Illustrative Mathematics Units 6, 7			
Unit	Number of Critical Lessons	Video Lessons	Lesson Title(s)
6 Introduction to Quadratic Functions	16	<a href="#"><u>1</u></a>	A Different Kind of Change
		<a href="#"><u>2</u></a>	How Does it Change?
		<a href="#"><u>3</u></a>	Building Quadratic Functions from Geometric Patterns
		<a href="#"><u>4</u></a>	Comparing Quadratic and Exponential Functions
		<a href="#"><u>5</u></a>	Building Quadratic Functions to Describe Situations (Part 1)
		<a href="#"><u>6</u></a>	Building Quadratic Functions to Describe Situation (Part 2)
		<a href="#"><u>8</u></a>	Equivalent Quadratic Expressions
		<a href="#"><u>9</u></a>	Standard Form and Factored Form
		<a href="#"><u>10</u></a>	Graphs of Functions in Standard and Factored Forms
		<a href="#"><u>11</u></a>	Graphing from the Factored Form

		<a href="#">14</a>	Graphs That Represent Situations
7 Quadratic Equations	24	<a href="#">2</a>	When and Why Do We Write Quadratic Equations?
		<a href="#">4</a>	Solving Quadratic Equations with the Zero Product Property
		<a href="#">5</a>	How Many Solutions?
		<a href="#">6</a>	Rewriting Quadratic Expressions in Factored Form (Part 1)
		<a href="#">7</a>	Rewriting Quadratic Expressions in Factored Form (Part 2)
		<a href="#">8</a>	Rewriting Quadratic Expressions in Factored Form (Part 3)
		<a href="#">9</a>	Solving Quadratic Equations by Using Factored Form
		<a href="#">11</a>	What are Perfect Squares?
		<a href="#">12</a>	Completing the Square (Part 1)
		<a href="#">13</a>	Completing the Square (Part 2)
		<a href="#">15</a>	Quadratic Equations with Irrational Solutions
		<a href="#">16</a>	The Quadratic Formula
		<a href="#">17</a>	Applying the Quadratic Formula (Part 1)

## Geometry

### Suggested Implementation Calendar<sup>3</sup>

Geometry	Unit	Approximate Timeframe	Number of Lessons	Additional Notes
<b>Administer Geometry LEAP 360 Diagnostic</b> The <a href="#">Illustrative Math LEAP 360 Diagnostic Mapping</a> can also be used to support teachers in identifying where students may have unfinished learning and need additional supports.				
weeks 2-7	Unit 1: Constructions and Rigid Transformations	25 days	22 lessons	Optional Lesson(s): 8, 18, 22 Unit has a mid-unit assessment.
weeks 8-11	Unit 2: Congruence	16 days	15 lessons	Optional Lesson(s): 11
weeks 12-15	Unit 3: Similarity	17 days	16 lessons	Optional Lesson(s): 2, 10, 12
weeks 16-18	Unit 4: Right Triangle Trigonometry	11 days	11 lessons	Optional Lesson(s): 2, 3
<b>Administer Geometry LEAP 360 Interim Form 1</b>				
weeks 19-23	Unit 5: Solid Geometry	20 days	18 lessons	Optional Lesson(s): None
weeks 24-27	Unit 6: Coordinate Geometry	18 days	17 lessons	Optional Lesson(s): 8 Unit has a mid-unit assessment.
<b>Administer Geometry LEAP 360 Interim Form 2</b>				
weeks 28-30	Unit 7: Circles	15 days	14 lessons	Optional Lesson(s): 14

<sup>3</sup> Adapted from guidance developed by Illustrative Mathematics

				Unit has a mid-unit assessment.
weeks 31-32	Unit 8: Conditional Probability	11 days	11 lessons	Optional Lesson(s): 1, 11
Reserved for state testing (dates will vary)				
weeks 34-36	Optional lessons			

### Alignment to Louisiana Student Standards for Mathematics<sup>4</sup>

Units of Study	Alignment to the Louisiana Student Standards for Mathematics (LSSM)
Unit 1: Constructions and Rigid Transformations	Aligned to LSSM
Unit 2: Congruence	Aligned to LSSM
Unit 3: Similarity	Aligned to LSSM
Unit 4: Right Triangle Trigonometry	Aligned to LSSM
Unit 5: Solid Geometry	Aligned to LSSM
Unit 6: Coordinate Geometry	Aligned to LSSM; Lesson 8 activities on deriving the equation of a parabola given a focus and directrix go beyond the scope of the LSSM. These activities can be reserved for after statewide testing.
Unit 7: Circles	Aligned to LSSM

<sup>4</sup> Developed in partnership with Illustrative Mathematics



Unit 8: Conditional Probability

Aligned to LSSM

## 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.

Geometry: Standards by Unit							
Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Unit 7	Unit 8
GM: G-CO.A.1	GM: G-CO.A.1	GM: G-C.A.1	GM: G-GMD.A.1	GM: G-GMD	GM: G-C.A.2	GM: G-C.A.2	GM: S-CP.A.1
GM: G-CO.A.2	GM: G-CO.A.3	GM: G-CO.A.2	GM: G-MG.A.1	GM: G-GMD.A.1	GM: G-CO.A.1	GM: G-C.A.3	GM: S-CP.A.2
GM: G-CO.A.3	GM: G-CO.B.6	GM: G-CO.C.10	GM: G-MG.A.3	GM: G-GMD.A.3	GM: G-CO.A.2	GM: G-C.B	GM: S-CP.A.3
GM: G-CO.A.4	GM: G-CO.B.7	GM: G-MG.A.1	GM: G-SRT.B	GM: G-GMD.B.4	GM: G-CO.A.5	GM: G-C.B.5	GM: S-CP.A.4
GM: G-CO.A.5	GM: G-CO.B.8	GM: G-MG.A.2	GM: G-SRT.B.5	GM: G-MG.A.1	GM: G-CO.C.10	GM: G-CO.C.9	GM: S-CP.A.5
GM: G-CO.B.6	GM: G-CO.C.9	GM: G-MG.A.3	GM: G-SRT.C.6	GM: G-MG.A.2	GM: G-GPE.A.1	GM: G-CO.C.10	GM: S-CP.B.6
GM: G-CO.C.9	GM: G-CO.C.10	GM: G-SRT.A.1	GM: G-SRT.C.7	GM: G-MG.A.3	GM: G-GPE.B.4	GM: G-GMD.A.1	GM: S-CP.B.7
GM: G-CO.C.10	GM: G-CO.C.11	GM: G-SRT.A.1.a	GM: G-SRT.C.8	GM: G-SRT.C.8	GM: G-GPE.B.5	GM: G-MG.A.3	
GM: G-CO.D.12	GM: G-MG.A.3	GM: G-SRT.A.1.b			GM: G-GPE.B.6	GM: G-SRT.B.5	
GM: G-CO.D.13	GM: G-SRT.A.3	GM: G-SRT.A.2			GM: G-GPE.B.7	GM: G-SRT.C.8	

GM: G-MG.A.1 GM: G-MG.A.3		GM: G-SRT.A.3 GM: G-SRT.B.4 GM: G-SRT.B.5 GM: G-SRT.C.6 GM: G-SRT.C.8			GM: G-SRT.B.5		
------------------------------	--	---	--	--	---------------	--	--

### Standards by Lesson

Standard	Lesson(s)
GM: G-C.A	Geo.3.11
GM: G-C.A.1	Geo.3.8
GM: G-C.A.2	Geo.6.14, Geo.7.1, Geo.7.2, Geo.7.3, Geo.7.14
GM: G-C.A.3	Geo.7.4, Geo.7.5, Geo.7.7, Geo.7.14
GM: G-C.B	Geo.7.8, Geo.7.9, Geo.7.14
GM: G-C.B.5	Geo.7.8, Geo.7.11, Geo.7.12, Geo.7.13
GM: G-CO.A.1	Geo.1.1, Geo.1.2, Geo.1.3, Geo.1.6, Geo.1.8, Geo.1.13, Geo.1.20, Geo.2.4, Geo.6.4
GM: G-CO.A.2	Geo.1.10, Geo.1.11, Geo.1.13, Geo.1.15, Geo.1.17, Geo.1.18, Geo.1.20, Geo.1.21, Geo.3.1, Geo.3.3, Geo.6.1, Geo.6.2, Geo.6.3, Geo.6.11, Geo.6.15
GM: G-CO.A.3	Geo.1.15, Geo.1.16
GM: G-CO.A.4	Geo.1.11, Geo.1.12, Geo.1.14
GM: G-CO.A.5	Geo.1.10, Geo.1.13, Geo.1.17, Geo.1.18, Geo.2.1, Geo.6.1, Geo.6.2, Geo.6.3

Standard	Lesson(s)
GM: G-CO.B	Geo.6.1
GM: G-CO.B.6	Geo.2.1, Geo.2.2, Geo.2.5
GM: G-CO.B.7	Geo.2.3
GM: G-CO.B.8	Geo.2.4, Geo.2.6, Geo.2.7, Geo.2.9
GM: G-CO.C.10	Geo.1.21, Geo.2.6, Geo.2.7, Geo.3.5, Geo.6.16, Geo.6.17, Geo.7.5, Geo.7.6, Geo.7.7
GM: G-CO.C.11	Geo.2.7, Geo.2.9, Geo.2.10, Geo.2.12, Geo.2.13, Geo.2.15
GM: G-CO.C.9	Geo.1.19, Geo.1.20, Geo.1.21, Geo.2.8, Geo.2.14, Geo.7.6
GM: G-CO.D.12	Geo.1.1, Geo.1.2, Geo.1.3, Geo.1.4, Geo.1.5, Geo.1.6, Geo.1.8, Geo.1.9, Geo.1.22
GM: G-CO.D.13	Geo.1.2, Geo.1.4, Geo.1.7, Geo.1.8, Geo.1.22
GM: G-GMD	Geo.5.4, Geo.5.5, Geo.5.6, Geo.5.7, Geo.5.8
GM: G-GMD.A.1	Geo.4.11, Geo.5.9, Geo.5.10, Geo.5.13, Geo.7.8, Geo.7.10
GM: G-GMD.A.3	Geo.2.1, Geo.5.9, Geo.5.11, Geo.5.14, Geo.5.15, Geo.5.16
GM: G-GMD.B.4	Geo.5.1, Geo.5.2, Geo.5.3, Geo.5.8, Geo.5.9, Geo.5.10, Geo.5.11, Geo.5.15
GM: G-GPE.A.1	Geo.6.4, Geo.6.6
GM: G-GPE.A.2	Geo.6.8 ( <i>Beyond LSSM standards expectations</i> )
GM: G-GPE.B.4	Geo.6.4, Geo.6.7, Geo.6.10, Geo.6.14, Geo.6.16, Geo.6.17
GM: G-GPE.B.5	Geo.6.10, Geo.6.11, Geo.6.12, Geo.6.13, Geo.6.14, Geo.6.17

Standard	Lesson(s)
GM: G-GPE.B.6	Geo.6.15, Geo.6.16
GM: G-GPE.B.7	Geo.6.14
GM: G-MG.A.1	Geo.1.1, Geo.2.1, Geo.3.11, Geo.4.9, Geo.5.8, Geo.5.10, Geo.5.14, Geo.5.16, Geo.5.18
GM: G-MG.A.2	Geo.3.1, Geo.5.17
GM: G-MG.A.3	Geo.1.1, Geo.1.9, Geo.2.10, Geo.3.1, Geo.3.2, Geo.4.1, Geo.4.9, Geo.5.7, Geo.5.8, Geo.5.14, Geo.5.16, Geo.5.18, Geo.7.14
GM: G-SRT.A.1	Geo.3.1, Geo.3.3, Geo.3.4
GM: G-SRT.A.1.a	Geo.3.4
GM: G-SRT.A.1.b	Geo.3.1, Geo.3.3, Geo.3.6
GM: G-SRT.A.2	Geo.3.6, Geo.3.7, Geo.3.8
GM: G-SRT.A.3	Geo.3.9
GM: G-SRT.B.4	Geo.3.5, Geo.3.11, Geo.3.14
GM: G-SRT.B.5	Geo.3.1, Geo.3.6, Geo.3.11, Geo.3.12, Geo.3.13, Geo.3.15, Geo.3.16, Geo.4.1, Geo.4.2, Geo.4.3, Geo.6.3, Geo.7.1, Geo.7.2, Geo.7.6
GM: G-SRT.C	Geo.4.7, Geo.4.10, Geo.4.11
GM: G-SRT.C.6	Geo.4.4, Geo.4.5, Geo.4.6, Geo.4.9
GM: G-SRT.C.7	Geo.4.8
GM: G-SRT.C.8	Geo.4.7, Geo.4.9, Geo.4.10, Geo.5.11, Geo.7.14

Standard	Lesson(s)
GM: S-CP.A.1	Geo.8.2, Geo.8.3, Geo.8.5, Geo.8.6
GM: S-CP.A.2	Geo.8.7, Geo.8.10, Geo.8.11
GM: S-CP.A.3	Geo.8.8, Geo.8.10, Geo.8.11
GM: S-CP.A.4	Geo.8.4, Geo.8.7, Geo.8.9, Geo.8.10
GM: S-CP.A.5	Geo.8.7, Geo.8.10, Geo.8.11
GM: S-CP.B.6	Geo.8.8, Geo.8.11
GM: S-CP.B.7	Geo.8.6