Louisiana Believes

Video Lessons for Illustrative Mathematics: Grades 6-8 and 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.

Updated on August 6, 2020

DEPARTMENT of EDUCATION
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Background Information:

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 are available at the links below:

- Grade 6: http://schoolkitgroup.com/video-grade-6/
- Grade 7: http://schoolkitgroup.com/video-grade-7/
- Grade 8: http://schoolkitgroup.com/video-grade-8/
- Algebra I: http://schoolkitgroup.com/video-algebra/

The tables below contain information on each of the lessons available for on-demand viewing with links to individual lessons embedded for each grade level.

- Grade 6 Video Lesson List
- Grade 7 Video Lesson List
- Grade 8 Video Lesson List
- Algebra I Video Lesson List

Grade 6 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 Expressions and Equations	16	1	Tape Diagrams and Equations
		2	Truth and Equations
		4	Practice Solving Equations and Representing Situations with Equations
		6	Write Expressions Where Letters Stand for Numbers
		8	Equal and Equivalent
		9	The Distributive Property, Part 1
		10	The Distributive Property, Part 2

		16 and 17	Two Related Quantities, Part 1 and Part 2
7 Rational Numbers	18	1	Positive and Negative Numbers
		2	Points on the Number Line
		3	Comparing Positive and Negative Numbers
		6	Absolute Value of Numbers
		11	Points on the Coordinate Plane
		13	Interpreting Points on a Coordinate Plane
		14	Distances on a Coordinate Plane

Grade 7 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
		9	Multiplying Rational Numbers
		11	Dividing Rational Numbers

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

Grade 8 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
5 Functions and Volume	17	9 and 10	Linear Models
6 Associations in Data	10	3	What a Point in a Scatter Plot Means
		4	Fitting a Line to Data
		5	Describing Trends in Scatter Plots

		6	The Slope of a Fitted Line
7 Exponents and Scientific Notation	16	2	Multiplying Powers of Ten
		3	Powers of Powers of 10
		4	Dividing Powers of 10
		5 and 6	Negative Exponents with Powers of 10 and What about Other Bases?
		8	Combining Bases
8 Pythagorean Theorem and Irrational Numbers	15	1	The Areas of Squares and Their Side Lengths
		2	Side Lengths and Areas
		3	Rational and Irrational Numbers
		5	Reasoning About Square Roots

Algebra I Video Lesson List

Algebra I Illustrative Mathematics Units 6, 7			
Unit	**Number of Critical Lessons**	**Broadcast Lessons**	**Lesson Title(s)**
6 Introduction to Quadratic Functions	16	1	A Different Kind of Change
		2	How Does it Change?
		3	Building Quadratic Functions from Geometric Patterns
		4	Comparing Quadratic and Exponential Functions
		5	Building Quadratic Functions to Describe Situations (Part 1)
		6	Building Quadratic Functions to Describe Situations (Part 2)
		8	Equivalent Quadratic Expressions
		9	Standard Form and Factored Form
		10	Graphs of Functions in Standard and Factored Forms
		11	Graphing from the Factored Form
		14	Graphs That Represent Situations
7 Quadratic Equations	24	2	When and Why Do We Write Quadratic Equations?
		4	Solving Quadratic Equations with the Zero Product Property
		5	How Many Solutions?
		6	Rewriting Quadratic Expressions in Factored Form (Part 1)

		7	Rewriting Quadratic Expressions in Factored Form (Part 2)
		8	Rewriting Quadratic Expressions in Factored Form (Part 3)
		9	Solving Quadratic Equations by Using Factored Form
		11	What are Perfect Squares?
		12	Completing the Square (Part 1)
		13	Completing the Square (Part 2)
		15	Quadratic Equations with Irrational Solutions
		16	The Quadratic Formula
		17	Applying the Quadratic Formula (Part 1)