

This document links to the video lesson summaries created for IM 6–8 Math v.III™ and IM Algebra 1 v.I™. This information is a duplicate of what can be found in the Family Materials for each of the courses listed. The Vimeo versions of the videos are also available to students in the 'For Students' materials view.. The intent of these video versions of the Student Lesson Summaries is that students view them after completing all lessons contained in the video. This gives students an opportunity to revise glossary terms from the lessons, see animated versions of the text from the print Student Lesson Summaries, and hear mathematical language.

Captions are available in both YouTube and Vimeo. To turn on captions when viewing a movie, hover over the video to bring up the menu at the bottom and click on the CC icon. When English subtitles are selected, you should see them appear (beginning with "bright music" or "upbeat ambient music").

Grade 6		
Unit 1 Area and Surface Area	Vimeo	YouTube
Video 1: Reasoning to Find Area (Lessons 1–3, 11)	Link	Link
Video 2: Parallelograms (Lessons 4–6)	Link	Link
Video 3: Triangles (Lessons 7–10)	Link	Link
Video 4: Surface Area (Lessons 12–15)	Link	Link
Video 5: Distinguishing between Surface Area and Volume (Lessons 16–18)	Link	Link
Unit 2 Introducing Ratios	Vimeo	YouTube
Video 1: What are Equivalent Ratios (Lessons 1–5)	Link	Link
Video 2: Double Number Line Diagrams (Lessons 6–8)	Link	Link
Video 3: Comparing Situations by Examining Ratios (Lessons 9–10)	Link	Link
Video 4: Tables of Equivalent Ratios (Lessons 11–14)	Link	Link
Video 5: Using Diagrams to Solve Ratio Problems (Lessons 15–16)	Link	Link
Unit 3 Unit Rates and Percentages	Vimeo	YouTube
Video 1: Converting Measurements (Lessons 2–4)	Link	Link
Video 2: Unit Rates (Lessons 5–8)	Link	Link

Video 3: Understanding Percentage (Lessons 10–13)	Link	Link
Video 4: Solving Percentage Problems (Lessons 14–16)	Link	Link
Unit 4 Dividing Fractions	Vimeo	YouTube
Video 1: Meanings of Division (Lessons 1–3)	Link	Link
Video 2: Using Diagrams to Divide Fractions (Lessons 5–9)	Link	Link
Video 3: Using an Algorithm to Divide Fractions (Lessons 10–12)	Link	Link
Video 4: Area and Volume with Fractions (Lessons 13–15)	Link	Link
Unit 5 Arithmetic in Base Ten	Vimeo	YouTube
Video 1: Adding and Subtracting Decimals (Lessons 2–4)	Link	Link
Video 2: Multiplying Decimals (Lessons 5–8)	Link	Link
Video 3: Dividing Whole Numbers (Lessons 9–10)	Link	Link
Video 4: Dividing Decimals (Lessons 11–14)	Link	Link
Unit 6 Expressions and Equations	Vimeo	YouTube
Video 1: Understanding Equations (Lessons 1–3)	Link	Link
Video 2: Writing and Solving Equations (Lessons 4–7)	Link	Link
Video 3: Writing Equivalent Expressions (Lessons 8–11)	Link	Link
Video 4: Expressions with Exponents (Lessons 12–15)	Link	Link
Video 5: Relationships Between Quantities (Lessons 16–18)	Link	Link
Unit 7 Rational Numbers	Vimeo	YouTube
Video 1: What are Negative Numbers? (Lessons 1–5)	Link	Link
Video 2: Absolute Value (Lessons 6–7)	Link	Link
Video 3: Inequalities (Lessons 8–10)	Link	Link
Video 4: The Coordinate Plane (Lessons 11–15)	Link	Link
Video 5: Common Factors and Common Multiples (Lessons 16–18)	Link	Link
Unit 8 Data Sets and Distributions	Vimeo	YouTube

Video 1: Data and Variability (Lessons 1–3)	Link	Link
Video 2: Distributions and Histograms (Lessons 4–8)	Link	Link
Video 3: Mean (Lessons 9–10)	Link	Link
Video 4: Variability and MAD (Lessons 11–12)	Link	Link
Video 5: Median (Lessons 13–14)	Link	Link
Video 6: Five Number Summary and Box Plots (Lessons 15–17)	Link	Link

Grade 7		
Unit 1 Scale Drawings	Vimeo	YouTube
Video 1: Scaled Copies (Lessons 1–4)	Link	Link
Video 2: More about Scale Factor (Lessons 5–6)	Link	Link
Video 3: What are Scaled Drawings (Lessons 7–9, 11)	Link	Link
Video 4: Scale Drawings with Different Scales (Lessons 10 and 12)	Link	Link
Unit 2 Introducing Proportional Relationships	Vimeo	YouTube
Video 1: Representing Proportional Relationships with Tables (Lessons 2–3)	Link	Link
Video 2: Representing Proportional Relationships with Equations (Lessons 4–6)	Link	Link
Video 3: Comparing Proportional and Nonproportional Relationships (Lessons 7–8)	Link	Link
Video 4: Representing Proportional Relationships with Graphs (Lessons 10–13)	Link	Link
Unit 3 Measuring Circles	Vimeo	YouTube
Video 1: Measuring Relationships (Lesson 1)	Link	Link
Video 2: Circumference of a Circle (Lessons 2–5)	Link	Link
Video 3: Area of a Circle (Lessons 7–9)	Link	Link
Video 4: Distinguishing Circumference and Area (Lesson 10)	Link	Link
Unit 4 Proportional Relationships and Percentages	Vimeo	YouTube
Video 1: Proportional Relationships with Fractions & Decimals (Lessons 4–5)	Link	Link
Video 2: Percent Increase and Decrease (Lessons 6–8)	Link	Link
Video 3: Applications of Percentages (Lessons 10–12)	Link	Link

Video 4: More Applications of Percentages (Lessons 14–15)	Link	Link
Unit 5 Rational Number Arithmetic	Vimeo	YouTube
Video 1: Adding Rational Numbers (Lessons 1–4)	Link	Link
Video 2: Subtracting Rational Numbers (Lessons 5–7)	Link	Link
Video 3: Multiplying and Dividing Rational Numbers (Lessons 8–11)	Link	Link
Video 4: Solving With Rational Numbers (Lessons 12–16)	Link	Link
Unit 6 Expressions, Equations, and Inequalities	Vimeo	YouTube
Video 1: Representing Two Types of Situations (Lessons 1–6)	Link	Link
Video 2: Reasoning About Solving Equations (Lessons 7–9)	Link	Link
Video 3: Using Equations to Solve Problems (Lessons 10–12)	Link	Link
Video 4: Solving Inequalities (Lessons 14–17)	Link	Link
Video 5: Writing Equivalent Expressions (Lessons 18–22)	Link	Link
Unit 7 Angles, Triangles, and Prisms	Vimeo	YouTube
Video 1: Angle Relationships (Lessons 1–5)	Link	Link
Video 2: Drawing Polygons with Given Conditions (Lessons 6–10)	Link	Link
Video 3: Volume of Right Prisms and Pyramids (Lessons 11–13)	Link	Link
Video 4: Volume and Surface Area of Right Prisms (Lessons 14–16)	Link	Link
Unit 8 Probability and Sampling	Vimeo	YouTube
Video 1: Estimating Probabilities (Lessons 1–5)	Link	Link
Video 2: Multi-step Experiments (Lessons 6–10)	Link	Link
Video 3: Sampling (Lessons 11–14)	Link	Link
Video 4: Using Samples (Lessons 15–19)	Link	Link

Grade 8

Unit 1 Rigid Transformations and Congruence	Vimeo	YouTube
Video 1: Rigid Transformations (Lessons 1–6)	Link	Link
Video 2: Properties of Rigid Transformations (Lessons 7–10)	Link	Link
Video 3: Congruence (Lessons 11–13)	Link	Link
Video 4: Angles in a Triangle (Lessons 14–16)	Link	Link
Unit 2 Dilations, Similarity, and Introducing Slope	Vimeo	YouTube
Video 1: Dilations (Lessons 1–5)	Link	Link
Video 2: Similarity (Lesson 6–9)	Link	Link
Video 3: Slope (Lessons 10–12)	Link	Link
Unit 3 Linear Relationships	Vimeo	YouTube
Video 1: Representing Proportional Relationships (Lessons 1–4)	Link	Link
Video 2: Representing Linear Relationships (Lessons 5–8)	Link	Link
Video 3: Finding Slopes (Lessons 9–10)	Link	Link
Video 4: Linear Equations (Lessons 11–13)	Link	Link
Unit 4 Linear Equations and Linear Systems	Vimeo	YouTube
Video 1: Solving Linear Equations in One Variable (Lessons 1–4)	Link	Link
Video 2: Solving Any Linear Equation (Lessons 5–6)	Link	Link
Video 3: Equations with Different Numbers of Solutions (Lessons 7–8)	Link	Link
Video 4: Systems of Equations (Lessons 10–12)	Link	Link
Video 5: Solving Systems of Equations (Lessons 13–15)	Link	Link
Unit 5 Functions and Volume	Vimeo	YouTube

Video 1: Inputs and Outputs (Lessons 1–3)	Link	Link
Video 2: Representing and Interpreting Functions (Lessons 4–7)	Link	Link
Video 3: Linear Functions and Rates of Change (Lessons 8–10)	Link	Link
Video 4: Cylinders and Cones (Lessons 11–16)	Link	Link
Video 5: Spheres (Lessons 19–21)	Link	Link
Unit 6 Associations in Data	Vimeo	YouTube
Video 1: Using Scatter Plots to Visualize Data (Lessons 1–3)	Link	Link
Video 2: Using Lines to Model Data (Lesson 4–8)	Link	Link
Video 3: Associations in Categorical Data (Lessons 9–10)	Link	Link
Unit 7 Exponents and Scientific Notation	Vimeo	YouTube
Video 1: Exponent Rules (Lessons 1–4)	Link	Link
Video 2: More Exponent Rules (Lesson 5–8)	Link	Link
Video 3: Powers of 10 (Lessons 9–12)	Link	Link
Video 4: Scientific Notation (13–15)	Link	Link
Unit 8 Pythagorean Theorem and Irrational Numbers	Vimeo	YouTube
Video 1: Side Lengths and Areas of Squares (Lessons 1–2)	Link	Link
Video 2: Square Roots on the Number Line (Lesson 3–5)	Link	Link
Video 3: The Pythagorean Theorem (Lessons 6–8)	Link	Link
Video 4: Using the Pythagorean Theorem (Lessons 9–11)	Link	Link
Video 5: Cube Roots and Decimal Representations (Lessons 12–15)	Link	Link

Algebra 1

Unit 1 One-variable Statistics	Vimeo	YouTube
Video 1: Representing Data (Lessons 1, 3)	Link	Link
Video 2: Distribution Types (Lesson 4)	Link	Link
Video 3: Statistics and Data Displays (Lessons 9–11)	Link	Link
Video 4: Manipulating Data (Lessons 12–15)	Link	Link
Unit 2 Linear Equations, Inequalities, and Systems	Vimeo	YouTube
Video 1: Building a Model (Lessons 1–3)	Link	Link
Video 2: Solutions to Linear Equations (Lessons 4–6)	Link	Link
Video 3: Rewriting Equations (Lessons 7–9)	Link	Link
Video 4: Equations and Their Graphs (Lessons 10–12)	Link	Link
Video 5: Solving Systems of Equations (Lessons 13–17)	Link	Link
Video 6: One-Variable Inequalities (Lessons 18–20)	Link	Link
Video 7: Systems of Inequalities (Lessons 21–25)	Link	Link
Unit 3 Two-Variable Statistics	Vimeo	YouTube
Video 1: Two-Way Tables (Lessons 1–3)	Link	Link
Video 2: Scatter Plots (Lessons 4–6)	Link	Link
Video 3: Correlation Coefficients (Lessons 7–9)	Link	Link
Unit 4 Functions	Vimeo	YouTube
Video 1: Functions and Function Notation (Lessons 1–2)	Link	Link
Video 2: Interpreting Function Notation (Lessons 3–5)	Link	Link
Video 3: Graphs of Functions (Lessons 6–7)	Link	Link
Video 4: Making and Interpreting Graphs (Lessons 8–9)	Link	Link
Video 5: Domain and Range (Lessons 10–11)	Link	Link

Video 6: Piecewise and Absolute Value Functions (Lessons 12–14)	Link	Link
Video 7: Inverse Functions (Lessons 15–17)	Link	Link
Unit 5 Introduction to Exponential Functions	Vimeo	YouTube
Video 1: Exponential Relationships (Lessons 3–7)	Link	Link
Video 2: Defining Exponential Functions (8–10, 20)	Link	Link
Video 3: Graphs of Exponential Functions (Lessons 11–13, 19)	Link	Link
Video 4: Percent Growth and Decay (Lessons 15–18)	Link	Link
Unit 6 Introduction to Quadratic Functions	Vimeo	YouTube
Video 1: Introducing Quadratic Functions (Lessons 2–4)	Link	Link
Video 2: Building Quadratic Functions (5–7)	Link	Link
Video 3: Working With Quadratic Expressions (Lessons 8–9)	Link	Link
Video 4: Graphing Quadratic Equations (Lessons 10–11)	Link	Link
Video 5: Graphing Standard Form (Lessons 12, 14)	Link	Link
Video 6: Vertex Form (Lessons 15–17)	Link	Link
Unit 7 Quadratic Equations	Vimeo	YouTube
Video 1: Solutions to Quadratic Equations (Lessons 1–5)	Link	Link
Video 2: Factored Form (6–10)	Link	Link
Video 3: Completing the Square (Lessons 11–15)	Link	Link
Video 4: The Quadratic Formula (Lessons 16–18)	Link	Link
Video 5: Rational and Irrational Solutions (Lessons 19–21)	Link	Link
Video 6: Vertex Form (Lessons 22–24)	Link	Link