

## Contents in Brief and Suggested Pacing for *Glencoe Math*, Course 3

Contents	Pacing (Days)
<b>Chapter 1</b> Real Numbers	18
<b>Unit 1 Project</b> Music to My Ears <i>optional</i>	2
<b>Chapter 2</b> Equations in One Variable	13
<b>Chapter 3</b> Equations in Two Variables	20
<b>Unit 2 Project</b> Web Design 101 <i>optional</i>	2
<b>Chapter 4</b> Functions	19
<b>Unit 3 Project</b> Green Thumb <i>optional</i>	2
<b>Chapter 5</b> Triangles and the Pythagorean Theorem	19
<b>Chapter 6</b> Transformations	13
<b>Chapter 7</b> Congruence and Similarity	17
<b>Chapter 8</b> Volume and Surface Area	15
<b>Unit 4 Project</b> Design That Ride <i>optional</i>	2
<b>Chapter 9</b> Scatter Plots and Data Analysis	18
<b>Unit 5 Project</b> Olympic Games <i>optional</i>	2
<b>Total Days</b> (including Projects)	162
<b>Total Days</b> (not including Projects)	152

## Chapter 1

### Chapter Contents and Suggested Pacing

Contents	Pacing (Days)
<b>Unit 1: Project Preview</b>	0.5
Chapter Opener	1
<b>Lesson 1</b> Rational Numbers	1
<b>Lesson 2</b> Powers and Exponents	1
<b>Lesson 3</b> Multiply and Divide Monomials	1
<b>Lesson 4</b> Powers of Monomials	1
<b>Problem-Solving Investigation: The Four-Step Plan</b>	1
Mid-Chapter Check	0.5
<b>Lesson 5</b> Negative Exponents	1.5
<b>Lesson 6</b> Scientific Notation	1
<b>Lesson 7</b> Compute with Scientific Notation	1
<b>Inquiry Lab</b> Scientific Notation Using Technology	1
<b>Lesson 8</b> Roots	1
<b>Inquiry Lab</b> Roots of Non-Perfect Squares	1
<b>Lesson 9</b> Estimate Roots	1
<b>Lesson 10</b> Compare Real Numbers	1
<b>21st Century Careers: Robotics Engineer</b>	0.5
Chapter Review	1
Chapter Test	1
<b>Unit 1 Project: Music to My Ears</b>	2
<b>Total Days for Chapter 1</b>	20

## Chapter 2

### Chapter Contents and Suggested Pacing

Contents	Pacing (Days)
<b>Unit 2:</b> Project Preview	0.5
Chapter Opener	1
<b>Lesson 1</b> Solve Equations with Rational Coefficients	1.5
<b>Inquiry Lab</b> Solve Two-Step Equations	1
<b>Lesson 2</b> Solve Two-Step Equations	1
<b>Lesson 3</b> Write Two-Step Equations	1
<b>Problem-Solving Investigation:</b> Work Backward	1
Mid-Chapter Check	0.5
<b>Inquiry Lab</b> Equations with Variables on Each Side	1
<b>Lesson 4</b> Solve Equations with Variables on Each Side	1
<b>Lesson 5</b> Solve Multi-Step Equations	1
<b>21st Century Careers:</b> Skateboard Designer	0.5
Chapter Review	1
Chapter Test	1
<b>Total Days for Chapter 2</b>	<b>13</b>

## Chapter 3

### Chapter Contents and Suggested Pacing

Contents	Pacing (Days)
Chapter Opener	1
<b>Lesson 1</b> Constant Rate of Change	1
<b>Inquiry Lab</b> Graphing Technology: Rate of Change	1
<b>Lesson 2</b> Slope	1
<b>Lesson 3</b> Equations in $y = mx$ Form	1
<b>Lesson 4</b> Slope-Intercept Form	1
<b>Inquiry Lab</b> Slope Triangles	1
<b>Lesson 5</b> Graph a Line Using Intercepts	1
<b>Problem-Solving Investigation:</b> Guess, Check, and Revise	1
Mid-Chapter Check	0.5
<b>Lesson 6</b> Write Linear Equations	2
<b>Inquiry Lab</b> Graphing Technology: Model Linear Behavior	1
<b>Inquiry Lab</b> Graphing Technology: Systems of Equations	1
<b>Lesson 7</b> Solve Systems of Equations by Graphing	1.5
<b>Lesson 8</b> Solve Systems of Equations Algebraically	1.5
<b>Inquiry Lab</b> Analyze Systems of Equations	1
<b>21st Century Careers:</b> Mastering Engineer	0.5
Chapter Review	1
Chapter Test	1
<b>Unit 2 Project:</b> Web Design 101	2
<b>Total Days for Chapter 3</b>	22

## Chapter 4

### Chapter Contents and Suggested Pacing

Contents	Pacing (Days)
<b>Unit 3: Project Preview</b>	0.5
Chapter Opener	1
<b>Lesson 1</b> Represent Relationships	1
<b>Lesson 2</b> Relations	1
<b>Inquiry Lab</b> Relations and Functions	1
<b>Lesson 3</b> Functions	1
<b>Lesson 4</b> Linear Functions	1.5
<b>Problem-Solving Investigation:</b> Make a Table	1
Mid-Chapter Check	0.5
<b>Lesson 5</b> Compare Properties of Functions	1
<b>Lesson 6</b> Construct Functions	1
<b>Lesson 7</b> Linear and Nonlinear Functions	2
<b>Lesson 8</b> Quadratic Functions	2
<b>Inquiry Lab</b> Graphing Technology: Families of Nonlinear Functions	1
<b>Lesson 9</b> Qualitative Graphs	1
<b>21st Century Careers:</b> Physical Therapist	0.5
Chapter Review	1
Chapter Test	1
<b>Unit 3 Project:</b> Green Thumb	2
<b>Total Days for Chapter 4</b>	21

## Chapter 5

### Chapter Contents and Suggested Pacing

Contents	Pacing (Days)
<b>Unit 4: Project Preview</b>	0.5
Chapter Opener	1
<b>Inquiry Lab</b> Parallel Lines	1
<b>Lesson 1</b> Lines	1
<b>Lesson 2</b> Geometric Proof	2
<b>Inquiry Lab</b> Triangles	1
<b>Lesson 3</b> Angles of Triangles	1
<b>Lesson 4</b> Polygons and Angles	1
<b>Problem-Solving Investigation:</b> Look for a Pattern	1
Mid-Chapter Check	0.5
<b>Inquiry Lab</b> Right Triangle Relationships	1
<b>Lesson 5</b> The Pythagorean Theorem	1
<b>Inquiry Lab</b> Proofs About the Pythagorean Theorem	1.5
<b>Lesson 6</b> Use the Pythagorean Theorem	1.5
<b>Lesson 7</b> Distance on the Coordinate Plane	1.5
<b>21st Century Careers:</b> Travel Agent	0.5
Chapter Review	1
Chapter Test	1
<b>Total Days for Chapter 5</b>	19

## Chapter 6

### Chapter Contents and Suggested Pacing

Contents	Pacing (Days)
Chapter Opener	1
<b>Inquiry Lab</b> Transformations	1.5
<b>Lesson 1</b> Translations	1
<b>Lesson 2</b> Reflections	1
<b>Problem-Solving Investigation:</b> Act it Out	1
Mid-Chapter Check	0.5
<b>Inquiry Lab</b> Rotational Symmetry	1
<b>Lesson 3</b> Rotations	1.5
<b>Inquiry Lab</b> Dilations	1
<b>Lesson 4</b> Dilations	1
<b>21st Century Careers:</b> Computer Animator	0.5
Chapter Review	1
Chapter Test	1
<b>Total Days for Chapter 6</b>	<b>13</b>

## Chapter 7

### Chapter Contents and Suggested Pacing

Contents	Pacing (Days)
Chapter Opener	1
<b>Inquiry Lab</b> Composition of Transformations	1
<b>Lesson 1</b> Congruence and Transformations	1.5
<b>Inquiry Lab</b> Investigate Congruent Triangles	1
<b>Lesson 2</b> Congruence	1
<b>Inquiry Lab</b> Geometry Software	1
<b>Problem-Solving Investigation:</b> Draw a Diagram	1
Mid-Chapter Check	0.5
<b>Inquiry Lab</b> Similar Triangles	1
<b>Lesson 3</b> Similarity and Transformations	1.5
<b>Lesson 4</b> Properties of Similar Polygons	1
<b>Lesson 5</b> Similar Triangles and Indirect Measurement	1
<b>Lesson 6</b> Slope and Similar Triangles	1
<b>Lesson 7</b> Area and Perimeter of Similar Figures	1
<b>21st Century Careers:</b> Car Designer	0.5
Chapter Review	1
Chapter Test	1
<b>Total Days for Chapter 7</b>	<b>17</b>

## Chapter 8

### Chapter Contents and Suggested Pacing

Contents	Pacing (Days)
Chapter Opener	1
<b>Inquiry Lab</b> Three-Dimensional Figures	1
<b>Lesson 1</b> Volume of Cylinders	1
<b>Lesson 2</b> Volume of Cones	1
<b>Lesson 3</b> Volume of Spheres	1
<b>Problem-Solving Investigation:</b> Solve a Simpler Problem	1
Mid-Chapter Check	0.5
<b>Inquiry Lab</b> Surface Area of Cylinders	1
<b>Lesson 4</b> Surface Area of Cylinders	1
<b>Inquiry Lab</b> Nets of Cones	1
<b>Lesson 5</b> Surface Area of Cones	1
<b>Inquiry Lab</b> Changes in Scale	1
<b>Lesson 6</b> Changes in Dimensions	1
<b>21st Century Careers:</b> Space Architect	0.5
Chapter Review	1
Chapter Test	1
<b>Unit 4 Project:</b> Design That Ride	2
<b>Total Days for Chapter 8</b>	<b>17</b>

## Chapter 9

### Chapter Contents and Suggested Pacing

Contents	Pacing (Days)
<b>Unit 5: Project Preview</b>	0.5
Chapter Opener	1
<b>Inquiry Lab</b> Scatter Plots	1
<b>Lesson 1</b> Scatter Plots	1.5
<b>Inquiry Lab</b> Lines of Best Fit	1
<b>Lesson 2</b> Lines of Best Fit	1
<b>Inquiry Lab</b> Graphing Technology: Linear and Nonlinear Association	1
<b>Lesson 3</b> Two-Way Tables	1
<b>Problem-Solving Investigation:</b> Use a Graph	1
Mid-Chapter Check	0.5
<b>Lesson 4</b> Descriptive Statistics	2
<b>Lesson 5</b> Measures of Variation	2
<b>Lesson 6</b> Analyze Data Distributions	2
<b>21st Century Careers:</b> Sports Marketer	0.5
Chapter Review	1
Chapter Test	1
<b>Unit 5 Project:</b> Olympic Games	2
<b>Total Days for Chapter 9</b>	20