HMH into Math™

HMH into AGA™

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Grades K–12

Power

# Student Growth

Who understands the challenges teachers face better than you? Meeting your needs is the first step to meeting the needs of students and supporting them as they tackle the standards and excel to higher levels of mathematical thinking.

Thanks to longstanding relationships with teachers and their insight, *Into Math*™ and *Into AGA*™ were developed by leading experts in the field of mathematics teaching and learning to ensure readiness and growth for each and every student.

Designed from the ground up, ***Into Math*** and ***Into AGA*** are the only solution built to monitor, predict, and accelerate growth for each and every student in Kindergarten to Grade 12.

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| Unit 1: Count Sequence and Numbers to 5 | | |
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| | **Lessons** | |
| **Module 1—Represent Numbers to 5 with Objects** | 1.1 | Represent 1 and 2 |
| | 1.2 | Represent 3 and 4 |
| | 1.3 | Represent 5 |
| | 1.4 | Represent 0 |
| | 1.5 | Ways to Make 5 |
| | **Lessons** | |
| **Module 2—Represent Numbers to 5 with a Written Numeral** | 2.1 | Count and Write 0 and 1 |
| | 2.2 | Count and Write 2 and 3 |
| | 2.3 | Count and Write 4 and 5 |
| | 2.4 | Count and Write Numbers to 5 |
| | 2.5 | Count and Order to 5 |
| | **Lessons** | |
| **Module 3—Matching and Counting Numbers to 5** | 3.1 | Identify a Greater Number of Objects Within 5 |
| | 3.2 | Identify a Lesser Number of Objects Within 5 |
| | 3.3 | Match Equal Groups of Objects Within 5 |
| | 3.4 | Compare Groups Within 5 by Counting |
| | 3.5 | Compare Groups Within 5 by Matching |
| | 3.6 | Compare Numbers Within 5 |
| | **Lessons** | |
| **Module 4—Classify, Count, and Sort Objects** | 4.1 | Classify and Count by Color |
| | 4.2 | Classify and Count by Shape |
| | 4.3 | Classify and Count by Size |
| | 4.4 | Classify, Count, and Sort by Count |
| | **Lessons** | |
| **Module 5—Add To and Take From Within 5** | 5.1 | Act Out Addition Problems Within 5 |
| | 5.2 | Act Out Subtraction Problems Within 5 |
| | 5.3 | Solve Add To Problems Within 5 |
| | 5.4 | Solve Take From Problems Within 5 |
| | 5.5 | Write Addition Equations Within 5 |
| | 5.6 | Write Subtraction Equations Within 5 |
| | 5.7 | Solve Result Unknown Word Problems Within 5 |

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| | Lessons | |
|---|---|---|
| Module 6—Put Together and Take Apart Within 5 | 6.1 | Represent Addition Problems Within 5 Using Objects and Drawings |
| | 6.2 | Represent Subtraction Problems Within 5 Using Objects and Drawings |
| | 6.3 | Solve Put Together Problems Within 5 |
| | 6.4 | Solve Take Apart Problems Within 5 |
| | 6.5 | Represent Addition Using Mental Images |
| | 6.6 | Represent Subtraction Using Mental Images |
| | 6.7 | Solve Word Problems Within 5 |
| **Unit 2: Count Sequence and Numbers to 10** | | |
| | Lessons | |
| Module 7—Represent Numbers 6 to 10 with Objects | 7.1 | Represent 6 and 7 |
| | 7.2 | Represent 8 and 9 |
| | 7.3 | Represent 10 |
| | Lessons | |
| Module 8—Represent Numbers 6 to 10 with a Written Numeral | 8.1 | Count and Write 6 and 7 |
| | 8.2 | Count and Write 8 and 9 |
| | 8.3 | Count and Write 10 |
| | 8.4 | Count and Order to 10 |
| | Lessons | |
| Module 9—Use the Count Sequence to Count to 100 | 9.1 | Count to 100 by Ones |
| | 9.2 | Count to 100 by Tens |
| | 9.3 | Count Forward From a Given Number |
| | Lessons | |
| Module 10—Compare Numbers to 10 | 10.1 | Identify a Greater Number of Objects Within 10 |
| | 10.2 | Identify a Lesser Number of Objects Within 10 |
| | 10.3 | Match Equal Groups of Objects Within 10 |
| | 10.4 | Compare Groups Within 10 by Counting |
| | 10.5 | Compare Groups Within 10 by Matching |
| | 10.6 | Compare Numbers Within 10 |

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| | Lessons | |
|---|---|---|
| **Module 11—Add To and Take From Within 10** | 11.1 | Act Out Addition Problems Within 10 |
| | 11.2 | Act Out Subtraction Problems Within 10 |
| | 11.3 | Solve Add To Problems Within 10 |
| | 11.4 | Solve Take From Problems Within 10 |
| | 11.5 | Write Addition Equations Within 10 |
| | 11.6 | Write Subtraction Equations Within 10 |
| | 11.7 | Solve Result Unknown Word Problems Within 10 |
| | **Lessons** | |
| **Module 12—Put Together and Take Apart Within 10** | 12.1 | Represent Addition Problems Within 10 Using Objects and Drawings |
| | 12.2 | Represent Subtraction Problems Within 10 Using Objects and Drawings |
| | 12.3 | Solve Put Together Problems Within 10 |
| | 12.4 | Solve Take Apart Problems Within 10 |
| | 12.5 | Solve Word Problems Within 10 |
| | **Lessons** | |
| **Module 13—Ways to Make Numbers to 10** | 13.1 | Ways to Make 6 and 7 |
| | 13.2 | Ways to Make 8 |
| | 13.3 | Ways to Make 9 |
| | 13.4 | Ways to Make 10 |
| | 13.5 | Make 10 From a Given Number |
| **Unit 3: Geometry** | | |
| | **Lessons** | |
| **Module 14—Analyze and Compare Three-Dimensional Shapes** | 14.1 | Identify and Describe Spheres |
| | 14.2 | Identify and Describe Cubes |
| | 14.3 | Identify and Describe Cylinders |
| | 14.4 | Identify and Describe Cones |
| | 14.5 | Build Shapes |
| | **Lessons** | |
| **Module 15—Describe Positions of Objects** | 15.1 | Use *Above* and *Below* to Describe Position |
| | 15.2 | Use *Next To* and *Beside* to Describe Position |
| | 15.3 | Use *In Front Of* and *Behind* to Describe Position |

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| | Lessons | |
|---|---|---|
| Module 16—Analyze and Compare Two-Dimensional Shapes | 16.1 | Identify and Describe Circles |
| | 16.2 | Identify and Describe Squares |
| | 16.3 | Identify and Describe Triangles |
| | 16.4 | Identify and Describe Rectangles |
| | 16.5 | Identify and Describe Hexagons |
| | 16.6 | Compose Simple Shapes |
| | 16.7 | Compare Two-Dimensional and Three-Dimensional Shapes |
| **Unit 4: Number and Operations in Base Ten** | | |
| | Lessons | |
| Module 17—Place Value Foundations: Represent Numbers to 20 | 17.1 | Compose Ten Ones and Some More Ones to 14 |
| | 17.2 | Compose Ten Ones and Some More Ones to 15 |
| | 17.3 | Compose Ten Ones and Some More Ones to 19 |
| | 17.4 | Represent Numbers to 20 |
| | Lessons | |
| Module 18— Place Value Foundations: Represent Numbers to 20 with a Written Numeral | 18.1 | Count and Write 11 to 14 |
| | 18.2 | Count and Write 15 |
| | 18.3 | Count and Write 16 to 19 |
| | 18.4 | Count and Write 20 |
| **Unit 5: Measurement** | | |
| | Lessons | |
| Module 19—Length and Height | 19.1 | Describe Attributes of Length and Height |
| | 19.2 | Compare and Describe Lengths |
| | 19.3 | Compare and Describe Heights |
| | Lessons | |
| Module 20—Weight | 20.1 | Describe Attributes of Weight |
| | 20.2 | Compare and Describe Weights |
| | 20.3 | Describe More Than One Attribute of an Object |

# *Into Math* Table of Contents – Grade 1

| Unit 1: Ways to Add and Subtract | | |
|---|---|---|
| | **Lessons** | |
| **Module 1—Addition Strategies** | 1.1 | Represent Addition |
| | 1.2 | Count On |
| | 1.3 | Add 10 and More |
| | 1.4 | Make a 10 to Add |
| | 1.5 | Add Doubles |
| | 1.6 | Use Known Sums to Add |
| | 1.7 | Choose a Strategy to Add |
| | **Lessons** | |
| **Module 2—Subtraction Strategies** | 2.1 | Represent Subtraction |
| | 2.2 | Count Back |
| | 2.3 | Count On to Subtract |
| | 2.4 | Add to Subtract |
| | 2.5 | Use 10 to Subtract |
| | 2.6 | Choose a Strategy to Subtract |
| | **Lessons** | |
| **Module 3—Properties of Operations** | 3.1 | Represent Addition in Any Order |
| | 3.2 | Add in Any Order |
| | 3.3 | Represent Addition of 3 Numbers |
| | 3.4 | Add 3 Numbers |
| | 3.5 | Add 3 Numbers to Solve Problems |
| | 3.6 | Determine Equal and Not Equal |
| | 3.7 | Develop Fluency in Addition |
| | **Lessons** | |
| **Module 4—Apply the Addition and Subtraction Relationship** | 4.1 | Think Addition to Subtract |
| | 4.2 | Represent Related Facts |
| | 4.3 | Identify Related Facts |
| | 4.4 | Use Addition to Check Subtraction |
| | 4.5 | Use Subtraction to Find an Unknown Addend |
| | 4.6 | Solve for the Unknown Addend |
| | 4.7 | Develop Fluency in Subtraction |

# *Into Math* Table of Contents – Grade 1


| Unit 2: Addition and Subtraction Situations and Data | | |
|---|---|---|
| | **Lessons** | |
| **Module 5—Understand Add To and Take From Problems** | 5.1 | Represent Result Unknown Problems with Objects and Drawings |
| | 5.2 | Represent Change Unknown Problems with Objects and Drawings |
| | 5.3 | Represent Start Unknown Problems with Objects and Drawings |
| | 5.4 | Solve Add To and Take From Problems |
| | **Lessons** | |
| **Module 6—Understand Put Together and Take Apart Problems** | 6.1 | Represent Total Unknown Problems with Objects and Drawings |
| | 6.2 | Represent Both Addends Unknown Problems with Objects and Drawings |
| | 6.3 | Represent Addend Unknown Problems with Objects and Drawings |
| | 6.4 | Represent Total Unknown Problems with a Visual Model |
| | 6.5 | Represent Addend Unknown and Both Addends Unknown Problems with a Visual Model |
| | 6.6 | Solve Put Together and Take Apart Problems |
| | 6.7 | Solve Addition and Subtraction Problems |
| | **Lessons** | |
| **Module 7—Understand Compare Problems** | 7.1 | Represent Difference Unknown Problems with Objects and Drawings |
| | 7.2 | Represent Bigger Unknown Problems with Objects and Drawings |
| | 7.3 | Represent Smaller Unknown Problems with Objects and Drawings |
| | 7.4 | Represent Difference Unknown Problems with a Visual Model |
| | 7.5 | Represent Bigger Unknown and Smaller Unknown Problems with a Visual Model |
| | 7.6 | Use Strategies to Solve Compare Problems |
| | 7.7 | Solve Addition and Subtraction Situations |
| | **Lessons** | |
| **Module 8—Data** | 8.1 | Interpret Picture Graphs |
| | 8.2 | Represent Data with Picture Graphs |
| | 8.3 | Interpret Tally Charts |
| | 8.4 | Represent Data with Tally Charts |
| | 8.5 | Interpret Bar Graphs |
| | 8.6 | Represent Data with Bar Graphs |
| | 8.7 | Use Data to Solve Problems |

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| Unit 3: Numbers to 120 | | |
|---|---|---|
| | Lessons | |
| Module 9—Understand Place Value | 9.1 | Make Ten and Ones |
| | 9.2 | Understand Ten and Ones |
| | 9.3 | Make Tens |
| | Lessons | |
| Module 10—Count and Represent Numbers | 10.1 | Count to 120 |
| | 10.2 | Represent Numbers as Tens and Ones with Objects |
| | 10.3 | Represent Numbers as Tens and Ones with Drawings |
| | 10.4 | Decompose Numbers in Different Ways |
| | 10.5 | Represent, Read, and Write Numbers from 100 to 110 |
| | 10.6 | Represent, Read, and Write Numbers from 110 to 120 |
| | Lessons | |
| Module 11—Compare Numbers | 11.1 | Understand Greater Than |
| | 11.2 | Understand Less Than |
| | 11.3 | Use Symbols to Compare |
| | 11.4 | Compare Numbers |
| **Unit 4: Addition and Subtraction in Base Ten** | | |
| | Lessons | |
| Module 12—Understand Addition and Subtraction with Tens and Ones | 12.1 | Represent Adding Tens |
| | 12.2 | Represent Subtracting Tens |
| | 12.3 | Add or Subtract Tens |
| | 12.4 | Use a Hundred Chart to Add |
| | 12.5 | Represent Addition with Tens and Ones |
| | 12.6 | Represent Make Ten to Add |
| | 12.7 | Represent Make Ten to Add with a Visual Model |
| | 12.8 | Use Mental Math to Find 10 Less and 10 More |
| | Lessons | |
| Module 13—Two-Digit Addition and Subtraction | 13.1 | Use a Hundred Chart to Show Two-Digit Addition and Subtraction |
| | 13.2 | Understand and Explain Place Value Addition |
| | 13.3 | Understand and Explain Place Value Subtraction |
| | 13.4 | Solve Two-Digit Addition and Subtraction Problems |
| | 13.5 | Practice Facts to 20 |
| | 13.6 | Practice Two-Digit Addition and Subtraction |

# *Into Math* Table of Contents – Grade 1


| Unit 5: Geometry | | |
|---|---|---|
| | Lessons | |
| Module 14—Three-Dimensional Shapes | 14.1 | Describe and Draw Three-Dimensional Shapes |
| | 14.2 | Compose Three-Dimensional Shapes |
| | 14.3 | Make New Three-Dimensional Shapes |
| | Lessons | |
| Module 15—Two-Dimensional Shapes | 15.1 | Sort Two-Dimensional Shapes by Attribute |
| | 15.2 | Describe and Draw Two-Dimensional Shapes |
| | 15.3 | Compose Two-Dimensional Shapes |
| | 15.4 | Identify Composed Shapes |
| | 15.5 | Make New Two-Dimensional Shapes |
| | Lessons | |
| Module 16—Fraction Foundations | 16.1 | Take Apart Two-Dimensional Shapes |
| | 16.2 | Identify Equal or Unequal Shares |
| | 16.3 | Partition Shapes into Halves |
| | 16.4 | Partition Shapes into Fourths |
| **Unit 6: Measurement** | | |
| | Lessons | |
| Module 17—Measure Length | 17.1 | Order Length |
| | 17.2 | Use Indirect Measurement to Compare Length |
| | 17.3 | Use Nonstandard Units to Measure Length |
| | 17.4 | Make a Nonstandard Measuring Tool |
| | Lessons | |
| Module 18—Measure Time | 18.1 | Understand Time to the Hour |
| | 18.2 | Understand Time to the Half Hour |
| | 18.3 | Tell Time to the Hour and Half Hour |
| | 18.4 | Practice Time to the Hour and Half Hour |

# *Into Math* Table of Contents – Grade 2


| Unit 1: Numbers to 20 and Data | | |
|---|---|---|
| | **Lessons** | |
| **Module 1—Fluency for Addition and Subtraction Within 20** | 1.1 | Use Doubles Facts to Add |
| | 1.2 | Develop Fluency with Addition Using Strategies and Properties |
| | 1.3 | Relate Addition and Subtraction |
| | 1.4 | Develop Fluency with Subtraction Using Mental Strategies |
| | 1.5 | Use the Make a Ten Strategy to Add |
| | 1.6 | Use a Tens Fact to Subtract |
| | 1.7 | Add 3 Numbers Using Mental Strategies and Properties |
| | **Lessons** | |
| **Module 2—Equal Groups** | 2.1 | Identify Even and Odd Numbers |
| | 2.2 | Write Equations to Represent Even Numbers |
| | 2.3 | Represent Equal Groups |
| | 2.4 | Add to Find the Total Number of Objects in Arrays |
| | 2.5 | Practice with Arrays |
| | **Lessons** | |
| **Module 3—Data** | 3.1 | Collect and Record Data |
| | 3.2 | Interpret Picture Graphs |
| | 3.3 | Draw Picture Graphs to Represent Data |
| | 3.4 | Interpret Bar Graphs |
| | 3.5 | Draw Bar Graphs to Represent Data |
| **Unit 2: Place Value** | | |
| | **Lessons** | |
| **Module 4—Understand Place Value** | 4.1 | Group Tens as Hundreds |
| | 4.2 | Understand Three-Digit Numbers |
| | 4.3 | Represent Three-Digit Numbers |
| | 4.4 | Represent Numbers with Hundreds, Tens, and Ones |
| | 4.5 | Place Value to 1,000 |
| | **Lessons** | |
| **Module 5—Read, Write, and Show Numbers to 1,000** | 5.1 | Use Expanded Form |
| | 5.2 | Use Number Names |
| | 5.3 | Different Ways to Write Numbers |
| | 5.4 | Different Ways to Show Numbers |
| | 5.5 | Read, Write, and Show Numbers |

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| | Lessons | |
|---|---|---|
| Module 6—Use Place Value | 6.1 | Count Within 1,000 |
| | 6.2 | Add and Subtract 10 or 100 |
| | 6.3 | Identify and Extend Number Patterns |
| | 6.4 | Compare Three-Digit Numbers |
| | 6.5 | Use Symbols to Compare Numbers |
| **Unit 3: Money and Time** | | |
| | Lessons | |
| Module 7—Coins | 7.1 | Relate Place Value to Coins |
| | 7.2 | Identify and Find the Value of Coins |
| | 7.3 | Compute the Value of Coin Combinations |
| | 7.4 | Show Amounts in Different Ways |
| | Lessons | |
| Module 8—Dollar Amounts | 8.1 | Relate the Value of Coins to One Dollar |
| | 8.2 | Compute the Value of Dollar Combinations |
| | 8.3 | Solve Problems Involving Money |
| | Lessons | |
| Module 9—Time | 9.1 | Tell and Write Time to 5 Minutes |
| | 9.2 | Different Ways to Tell and Write Time |
| | 9.3 | Practice Telling and Writing Time |
| | 9.4 | Tell and Write Time with a.m. and p.m. |
| **Unit 4: Two-Digit Addition and Subtraction** | | |
| | Lessons | |
| Module 10—Addition and Subtraction Counting Strategies | 10.1 | Use a Hundred Chart |
| | 10.2 | Use a Number Line |
| | 10.3 | Use Counting Strategies |
| | Lessons | |
| Module 11—Addition and Subtraction Grouping Strategies | 11.1 | Decompose Ones to Add |
| | 11.2 | Decompose Ones to Subtract |
| | 11.3 | Decompose Numbers to Add |
| | 11.4 | Decompose Addends as Tens and Ones |
| | 11.5 | Decompose Numbers to Subtract |

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| | Lessons | |
|---|---|---|
| **Module 12—Represent and Record Addition and Subtraction** | 12.1 | Represent Regrouping for Addition |
| | 12.2 | Represent Regrouping for Subtraction |
| | 12.3 | Represent and Record Two-Digit Addition |
| | 12.4 | Represent and Record Two-Digit Subtraction |
| | 12.5 | Add Two-Digit Numbers |
| | 12.6 | Subtract Two-Digit Numbers |
| | **Lessons** | |
| **Module 13—Develop Addition and Subtraction Fluency** | 13.1 | Rewrite Addition Problems |
| | 13.2 | Rewrite Subtraction Problems |
| | 13.3 | Use Addition and a Number Line to Subtract |
| | 13.4 | Add 3 Two-Digit Numbers Using Strategies and Properties |
| | 13.5 | Add 4 Two-Digit Numbers Using Strategies and Properties |
| | **Lessons** | |
| **Module 14—Algebra** | 14.1 | Use Drawings to Represent Addition and Subtraction Situations |
| | 14.2 | Use Equations to Represent Addition and Subtraction Situations |
| | 14.3 | Use Drawings and Equations to Represent Two-Digit Addition |
| | 14.4 | Use Drawings and Equations to Represent Two-Digit Subtraction |
| | **Lessons** | |
| **Module 15—Addition and Subtraction Word Problems** | 15.1 | Solve Addition Word Problems |
| | 15.2 | Solve Subtraction Word Problems |
| | 15.3 | Solve Multistep Addition and Subtraction Problems |
| **Unit 5: Three-Digit Addition and Subtraction** | | |
| | **Lessons** | |
| **Module 16—Three-Digit Addition** | 16.1 | Use Drawings to Represent Three-Digit Addition |
| | 16.2 | Decompose Three-Digit Addends |
| | 16.3 | Represent Regrouping for Addition |
| | 16.4 | Add Three-Digit Numbers |
| | **Lessons** | |
| **Module 17—Three-Digit Subtraction** | 17.1 | Represent Three-Digit Subtraction |
| | 17.2 | Represent Regrouping for Subtraction |
| | 17.3 | Subtract Three-Digit Numbers |
| | 17.4 | Represent Regrouping with Zeros |
| | 17.5 | Regrouping with Zeros |
| | 17.6 | Add and Subtract Three-Digit Numbers |

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| Unit 6: Measurement: Length | | |
|---|---|---|
| | Lessons | |
| Module 18—Length in Inches, Feet, and Yards | 18.1 | Estimate Lengths Using Inches |
| | 18.2 | Make and Use a Ruler |
| | 18.3 | Measure to the Nearest Inch |
| | 18.4 | Make Line Plots to Show Measurement Data |
| | 18.5 | Estimate Lengths Using Feet |
| | 18.6 | Measure in Inches and Feet |
| | 18.7 | Measure to the Nearest Yard |
| | 18.8 | Choose Appropriate Tools |
| | Lessons | |
| Module 19—Length in Centimeters and Meters | 19.1 | Estimate Lengths Using Centimeters |
| | 19.2 | Measure to the Nearest Centimeter |
| | 19.3 | Estimate Lengths Using Meters |
| | 19.4 | Measure in Centimeters and Meters |
| | Lessons | |
| Module 20—Relate Addition and Subtraction to Length | 20.1 | Relate Inches to a Number Line |
| | 20.2 | Add and Subtract Lengths in Inches |
| | 20.3 | Relate Centimeters to a Number Line |
| | 20.4 | Add and Subtract Lengths in Centimeters |
| | 20.5 | Measure and Compare Lengths in Centimeters |
| **Unit 7: Geometry and Fractions** | | |
| | Lessons | |
| Module 21—Two- and Three-Dimensional Shapes | 21.1 | Identify and Draw Three-Dimensional Shapes |
| | 21.2 | Identify and Draw Two-Dimensional Shapes |
| | 21.3 | Find and Count Angles in Two-Dimensional Shapes |
| | 21.4 | Sort Two-Dimensional Shapes by Sides and Angles |
| | Lessons | |
| Module 22—Understand Fractions | 22.1 | Partition Rectangles |
| | 22.2 | Identify and Describe Equal Shares |
| | 22.3 | Draw Equal Shares |
| | 22.4 | Show and Describe an Equal Share |
| | 22.5 | Different Ways to Show Equal Shares |

# *Into Math* Table of Contents – Grade 3


| Unit 1: Understand Multiplication and Area | | |
|---|---|---|
| | **Lessons** | |
| **Module 1—Understand Multiplication** | 1.1 | Count Equal Groups |
| | 1.2 | Relate Addition and Multiplication |
| | 1.3 | Represent Multiplication with Arrays |
| | 1.4 | Understand the Commutative Property of Multiplication |
| | 1.5 | Represent Multiplication with Number Lines |
| | 1.6 | Represent Multiplication with Bar Models |
| | **Lessons** | |
| **Module 2—Relate Multiplication and Area** | 2.1 | Understand Area by Counting Unit Squares |
| | 2.2 | Measure Area by Counting Unit Squares |
| | 2.3 | Relate Area to Addition and Multiplication |
| | 2.4 | Solve Problems with Area |
| | 2.5 | Find the Area of Combined Rectangles |
| **Unit 2: Multiplication and Division** | | |
| | **Lessons** | |
| **Module 3—Understand Multiplication Strategies** | 3.1 | Multiply with 2 and 4 |
| | 3.2 | Multiply with 5 and 10 |
| | 3.3 | Multiply with 3 and 6 |
| | **Lessons** | |
| **Module 4—Apply Multiplication Properties as Strategies** | 4.1 | Understand the Identity and Zero Properties of Multiplication |
| | 4.2 | Understand the Distributive Property |
| | 4.3 | Understand the Associative Property of Multiplication |
| | 4.4 | Multiply with 7 |
| | 4.5 | Multiply with 8 |
| | 4.6 | Multiply with 9 |
| | 4.7 | Identify Number Patterns on the Multiplication Table |
| | **Lessons** | |
| **Module 5—Multiplication with Multiples of 10** | 5.1 | Use the Distributive Property |
| | 5.2 | Use the Associative Property of Multiplication |
| | 5.3 | Use Place Value Strategies to Multiply with Multiples of 10 |
| | 5.4 | Multiply Multiples of 10 by 1-Digit |

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| | Lessons | |
|---|---|---|
| **Module 6—Understand Division** | 6.1 | Represent Division |
| | 6.2 | Separate Objects into Equal Groups |
| | 6.3 | Find the Number of Equal Groups |
| | 6.4 | Relate Subtraction and Division |
| | 6.5 | Represent Division with Arrays |
| | 6.6 | Represent Division with Bar Models |
| | 6.7 | Apply Division Rules for 1 and 0 |
| | **Lessons** | |
| **Module 7—Relate Multiplication and Division** | 7.1 | Relate Multiplication and Division |
| | 7.2 | Write Related Facts |
| | 7.3 | Multiply and Divide with 2, 4, and 8 |
| | 7.4 | Multiply and Divide with 5 and 10 |
| | 7.5 | Multiply and Divide with 3 and 6 |
| | 7.6 | Multiply and Divide with 7 and 9 |
| | 7.7 | Build Fluency with Multiplication and Division |
| | **Lessons** | |
| **Module 8—Apply Multiplication and Division** | 8.1 | Identify and Extend Patterns |
| | 8.2 | Find Unknown Factors and Numbers |
| | 8.3 | Use Multiplication and Division to Solve Problem Situations |
| | 8.4 | Solve Two-Step Problems |
| | 8.5 | Practice with One- and Two-Step Problems |
| **Unit 3: Addition and Subtraction Strategies and Applications** | | |
| | **Lessons** | |
| **Module 9—Addition and Subtraction Strategies** | 9.1 | Identify Number Patterns on the Addition Table |
| | 9.2 | Use Mental Math Strategies for Addition and Subtraction |
| | 9.3 | Use Properties to Add |
| | 9.4 | Use Mental Math to Assess Reasonableness |
| | 9.5 | Round to the Nearest Ten or Hundred |
| | 9.6 | Use Estimation with Sums and Differences |

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| | Lessons | |
|---|---|---|
| **Module 10—Addition and Subtraction Within 1,000** | 10.1 | Use Expanded Form to Add |
| | 10.2 | Use Place Value to Add |
| | 10.3 | Combine Place Values to Subtract |
| | 10.4 | Use Place Value to Subtract |
| | 10.5 | Choose a Strategy to Add or Subtract |
| | 10.6 | Model and Solve Two-Step Problems |
| | **Lessons** | |
| **Module 11—Understand Perimeter** | 11.1 | Describe Perimeter |
| | 11.2 | Find Perimeter |
| | 11.3 | Find Unknown Side Lengths |
| | 11.4 | Represent Rectangles with the Same Area and Different Perimeters |
| | 11.5 | Represent Rectangles with the Same Perimeter and Different Areas |
| | **Lessons** | |
| **Module 12—Time Measurement and Intervals** | 12.1 | Tell and Write Time to the Minute |
| | 12.2 | Use a.m. and p.m. to Describe Time |
| | 12.3 | Measure Time Intervals |
| | 12.4 | Find Start and End Times |
| | 12.5 | Solve Time Interval Problems |
| **Unit 4: Fractions** | | |
| | **Lessons** | |
| **Module 13—Understand Fractions as Numbers** | 13.1 | Describe Equal Parts of a Whole |
| | 13.2 | Represent and Name Unit Fractions |
| | 13.3 | Represent and Name Fractions of a Whole |
| | 13.4 | Represent and Name Fractions on a Number Line |
| | 13.5 | Express Whole Numbers as Fractions |
| | 13.6 | Represent and Name Fractions Greater Than 1 |
| | 13.7 | Use Fractions to Measure Lengths |
| | **Lessons** | |
| **Module 14—Relate Shapes, Fractions, and Area** | 14.1 | Relate Fractions and Area |
| | 14.2 | Partition Shapes into Equal Areas |
| | 14.3 | Use Unit Fractions to Describe Area |
| | **Lessons** | |
| **Module 15—Compare Fractions** | 15.1 | Compare Fractions Using Concrete and Visual Models |
| | 15.2 | Compare Fractions with the Same Denominator |
| | 15.3 | Compare Fractions with the Same Numerator |
| | 15.4 | Use Reasoning Strategies to Compare Fractions |

| | Lessons | |
|---|---|---|
| Module 16—Understand Equivalent Fractions | 16.1 | Represent Equivalent Fractions with Smaller Parts |
| | 16.2 | Represent Equivalent Fractions with Larger Parts |
| | 16.3 | Recognize and Generate Equivalent Fractions |
| **Unit 5: Measurement and Data** | | |
| | Lessons | |
| Module 17—Liquid Volume and Mass | 17.1 | Estimate and Measure Liquid Volume |
| | 17.2 | Estimate and Measure Mass |
| | 17.3 | Solve Problems About Liquid Volume and Mass |
| | Lessons | |
| Module 18—Represent and Interpret Data | 18.1 | Use Picture Graphs |
| | 18.2 | Make Picture Graphs |
| | 18.3 | Use Bar Graphs |
| | 18.4 | Make Bar Graphs |
| | 18.5 | Use Line Plots to Display Measurement Data |
| | 18.6 | Make Line Plots to Display Measurement Data |
| | 18.7 | Solve One- and Two-Step Problems Using Data |
| **Unit 6: Geometry** | | |
| | Lessons | |
| Module 19—Define Two-Dimensional Shapes | 19.1 | Describe Shapes |
| | 19.2 | Describe Angles in Shapes |
| | 19.3 | Describe Sides of Shapes |
| | 19.4 | Define Quadrilaterals |
| | Lessons | |
| Module 20—Categorize Two-Dimensional Shapes | 20.1 | Draw Quadrilaterals |
| | 20.2 | Categorize Quadrilaterals |
| | 20.3 | Categorize Plane Shapes |

# *Into Math* Table of Contents – Grade 4


| Unit 1: Place Value and Whole Number Operations | | |
|---|---|---|
| | **Lessons** | |
| **Module 1—Place Value of Whole Numbers** | 1.1 | Understand Place Value Relationships |
| | 1.2 | Read and Write Numbers |
| | 1.3 | Regroup and Rename Numbers |
| | 1.4 | Compare and Order Numbers |
| | 1.5 | Use Place Value Understanding to Round Numbers |
| | **Lessons** | |
| **Module 2—Addition and Subtraction of Whole Numbers** | 2.1 | Add Whole Numbers and Assess Reasonableness |
| | 2.2 | Subtract Whole Numbers and Assess Reasonableness |
| | 2.3 | Use Addition and Subtraction to Solve Comparison Problems |
| | 2.4 | Apply the Perimeter Formula for Rectangles |
| **Unit 2: Multiplication and Division Problems** | | |
| | **Lessons** | |
| **Module 3—Interpret and Solve Problem Situations** | 3.1 | Explore Multiplicative Comparisons |
| | 3.2 | Distinguish Between Multiplicative and Additive Comparisons |
| | 3.3 | Use Division to Solve Multiplicative Comparison Problems |
| | 3.4 | Use Comparisons to Solve Problem Situations |
| | 3.5 | Solve Multistep Problems with Multiplication and Division |
| | **Lessons** | |
| **Module 4—Mental Math and Estimation Strategies** | 4.1 | Explore Multiplication Patterns with Tens, Hundreds, and Thousands |
| | 4.2 | Explore Division Patterns with Tens, Hundreds, and Thousands |
| | 4.3 | Estimate Products by 1-Digit Numbers |
| | 4.4 | Estimate Quotients Using Compatible Numbers |
| | 4.5 | Use Mental Math Strategies for Multiplication and Division |
| | **Lessons** | |
| **Module 5—Multiply by 1-Digit Numbers** | 5.1 | Represent Multiplication |
| | 5.2 | Use Area Models and the Distributive Property to Multiply |
| | 5.3 | Multiply Using Expanded Form |
| | 5.4 | Multiply Using Partial Products |
| | 5.5 | Use Place Value to Multiply 2-Digit Numbers |
| | 5.6 | Multiply 3-Digit and 4-Digit Numbers |
| | 5.7 | Use Equations to Solve Multistep Problems |

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| | Lessons | |
|---|---|---|
| **Module 6—Understand Division by 1-Digit Numbers** | 6.1 | Represent Division |
| | 6.2 | Investigate Remainders |
| | 6.3 | Interpret Remainders |
| | 6.4 | Use Area Models and the Distributive Property to Divide |
| | 6.5 | Divide Using Repeated Subtraction |
| | 6.6 | Divide Using Partial Quotients |
| | **Lessons** | |
| **Module 7—Divide by 1-Digit Numbers** | 7.1 | Represent Division with Regrouping |
| | 7.2 | Use Place Value to Divide |
| | 7.3 | Divide by 1-Digit Numbers |
| | 7.4 | Solve Multistep Multiplication and Division Problems |
| **Unit 3: Extend and Apply Multiplication** | | |
| | **Lessons** | |
| **Module 8—Multiply by 2-Digit Numbers** | 8.1 | Multiply with Tens |
| | 8.2 | Estimate Products |
| | 8.3 | Relate Area Models and Partial Products |
| | 8.4 | Multiply Using Partial Products |
| | 8.5 | Multiply with Regrouping |
| | 8.6 | Choose a Multiplication Strategy |
| | 8.7 | Solve Multistep Problems and Assess Reasonableness |
| | **Lessons** | |
| **Module 9—Apply Multiplication to Area** | 9.1 | Apply the Area Formula to Rectangles |
| | 9.2 | Find the Area of Combined Rectangles |
| | 9.3 | Find Unknown Measures |
| | 9.4 | Solve Area Problems |
| **Unit 4: Fractions and Decimals** | | |
| | **Lessons** | |
| **Module 10—Algebraic Thinking: Number Theory** | 10.1 | Investigate Factors |
| | 10.2 | Identify Factors |
| | 10.3 | Generate Multiples Using Factors |
| | 10.4 | Identify Prime and Composite Numbers |
| | 10.5 | Generate and Analyze Number Patterns |

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| | Lessons | |
|---|---|---|
| **Module 11—Fraction Equivalence and Comparison** | 11.1 | Compare Fractions Using Visual Models |
| | 11.2 | Compare Fractions Using Benchmarks |
| | 11.3 | Explain Fraction Equivalence Using Visual Models |
| | 11.4 | Generate Equivalent Fractions |
| | 11.5 | Use Common Multiples to Write Equivalent Fractions |
| | 11.6 | Compare Fractions Using Common Numerators and Denominators |
| | 11.7 | Use Comparisons to Order Fractions |
| | **Lessons** | |
| **Module 12—Relate Fractions and Decimals** | 12.1 | Represent Tenths as Fractions and Decimals |
| | 12.2 | Represent Hundredths as Fractions and Decimals |
| | 12.3 | Identify Equivalent Fractions and Decimals |
| | 12.4 | Compare Decimals |
| | 12.5 | Relate Fractions, Decimals, and Money |
| | 12.6 | Solve Multistep Money Problems |
| | **Lessons** | |
| **Module 13—Use Fractions to Understand Angles** | 13.1 | Explore Lines, Rays, and Angles |
| | 13.2 | Explore Angles |
| | 13.3 | Relate Angles to Fractional Parts of a Circle |
| | 13.4 | Relate Degrees to Fractional Parts of a Circle |
| | 13.5 | Measure and Draw Angles Using a Protractor |
| | 13.6 | Join and Separate Angles |
| | 13.7 | Find Unknown Angle Measures |
| **Unit 5: Operations with Fractions** | | |
| | **Lessons** | |
| **Module 14—Understand Addition and Subtraction of Fractions with Like Denominators** | 14.1 | Decompose Fractions into Sums |
| | 14.2 | Join Parts of the Same Whole |
| | 14.3 | Represent Addition of Fractions |
| | 14.4 | Separate Parts of the Same Whole |
| | 14.5 | Represent Subtraction of Fractions |
| | 14.6 | Add Fractional Parts of 10 and 100 |
| | **Lessons** | |
| **Module 15—Add and Subtract Fractions and Mixed Numbers with Like Denominators** | 15.1 | Add and Subtract Fractions to Solve Problems |
| | 15.2 | Rename Fractions and Mixed Numbers |
| | 15.3 | Add and Subtract Mixed Numbers to Solve Problems |
| | 15.4 | Rename Mixed Numbers to Subtract |
| | 15.5 | Apply Properties of Addition to Add Fractions and Mixed Numbers |
| | 15.6 | Practice Solving Fraction Problems |

| | Lessons | |
|---|---|---|
| **Module 16—Multiply Fractions by Whole Numbers** | 16.1 | Understand Multiples of Unit Fractions |
| | 16.2 | Find Multiples of Fractions |
| | 16.3 | Represent Multiplication of a Fraction by a Whole Number |
| | 16.4 | Solve Problems Using Multiplication of a Fraction or Mixed Number by a Whole Number |
| **Unit 6: Two-Dimensional Figures and Symmetry** | | |
| | **Lessons** | |
| **Module 17—Two-Dimensional Figures** | 17.1 | Identify and Draw Perpendicular and Parallel Lines |
| | 17.2 | Identify and Classify Triangles by Angles |
| | 17.3 | Identify and Classify Triangles by Sides |
| | 17.4 | Identify and Classify Quadrilaterals |
| | 17.5 | Measure and Draw Angles of Two-Dimensional Figures |
| | **Lessons** | |
| **Module 18—Symmetry and Patterns** | 18.1 | Recognize Lines of Symmetry |
| | 18.2 | Identify and Draw Lines of Symmetry |
| | 18.3 | Generate and Identify Shape Patterns |
| **Unit 7: Measurement, Data, and Time** | | |
| | **Lessons** | |
| **Module 19—Relative Sizes of Customary Measurement Units** | 19.1 | Identify Customary Measurement Benchmarks |
| | 19.2 | Compare Customary Units of Length |
| | 19.3 | Compare Customary Units of Weight |
| | 19.4 | Compare Customary Units of Liquid Volume |
| | 19.5 | Represent and Interpret Measurement Data in Line Plots |
| | **Lessons** | |
| **Module 20—Relative Sizes of Metric Measurement Units** | 20.1 | Identify Metric Measurement Benchmarks |
| | 20.2 | Compare Metric Units of Length |
| | 20.3 | Compare Metric Units of Mass and Liquid Volume |
| | 20.4 | Solve Problems Using Measurements |
| | **Lessons** | |
| **Module 21—Solve Problems with Time and Measurement** | 21.1 | Compare Units of Time |
| | 21.2 | Solve Problems Involving Elapsed Time |
| | 21.3 | Solve Problems Involving Start Time and End Time |
| | 21.4 | Practice with Mixed Measures |

# *Into Math* Table of Contents – Grade 5


| Unit 1: Whole Numbers, Expressions, and Volume | | |
|---|---|---|
| | Lessons | |
| Module 1—Whole Number Place Value and Multiplication | 1.1 | Recognize the 10 to 1 Relationship Among Place-Value Positions |
| | 1.2 | Use Powers of 10 and Exponents |
| | 1.3 | Use a Pattern to Multiply by Multiples of 10, 100, and 1,000 |
| | 1.4 | Multiply by 1-Digit Numbers |
| | 1.5 | Multiply by Multi-Digit Numbers |
| | 1.6 | Develop Multiplication Fluency |
| | Lessons | |
| Module 2—Understand Division of Whole Numbers | 2.1 | Relate Multiplication to Division |
| | 2.2 | Represent Division with 2-Digit Divisors |
| | 2.3 | Estimate with 2-Digit Divisors |
| | 2.4 | Use Partial Quotients |
| | Lessons | |
| Module 3—Practice Division of Whole Numbers | 3.1 | Divide by 2-Digit Divisors |
| | 3.2 | Interpret the Remainder |
| | 3.3 | Adjust Quotients |
| | 3.4 | Practice with Division |
| | Lessons | |
| Module 4—Expressions | 4.1 | Write Numerical Expressions |
| | 4.2 | Interpret Numerical Expressions |
| | 4.3 | Evaluate Numerical Expressions |
| | 4.4 | Use Grouping Symbols |
| | Lessons | |
| Module 5—Volume | 5.1 | Use Unit Cubes to Build Solid Figures |
| | 5.2 | Understand Volume |
| | 5.3 | Estimate Volume |
| | 5.4 | Find Volume of Right Rectangular Prisms |
| | 5.5 | Apply Volume Formulas |
| | 5.6 | Find Volume of Composed Figures |
| **Unit 2: Add and Subtract Fractions and Mixed Numbers** | | |
| | Lessons | |
| Module 6—Understand Addition and Subtraction of Fractions with Unlike Denominators | 6.1 | Represent Fraction Sums and Differences |
| | 6.2 | Represent Addition with Different-Sized Parts |
| | 6.3 | Represent Subtraction with Different-Sized Parts |
| | 6.4 | Rewrite Fractions with a Common Denominator |

| | Lessons | |
|---|---|---|
| **Module 7—Add and Subtract Fractions and Mixed Numbers with Unlike Denominators** | 7.1 | Use Benchmarks and Number Sense to Estimate |
| | 7.2 | Assess Reasonableness of Fraction Sums and Differences |
| | 7.3 | Assess Reasonableness of Mixed Number Sums and Differences |
| | 7.4 | Rename Mixed Numbers to Subtract |
| | 7.5 | Apply Properties of Addition |
| | 7.6 | Practice Addition and Subtraction Using Equations |
| **Unit 3: Multiply Fractions and Mixed Numbers** | | |
| | Lessons | |
| **Module 8—Understand Multiplication of Fractions** | 8.1 | Explore Groups of Equal Shares to Show Multiplication |
| | 8.2 | Represent Multiplication of Whole Numbers by Fractions |
| | 8.3 | Represent Multiplication with Unit Fractions |
| | 8.4 | Represent Multiplication of Fractions |
| | 8.5 | Use Representations of Area to Develop Procedures |
| | 8.6 | Interpret Fraction Multiplication as Scaling |
| | 8.7 | Multiply Fractions |
| | Lessons | |
| **Module 9—Understand and Apply Multiplication of Mixed Numbers** | 9.1 | Explore Area and Mixed Numbers |
| | 9.2 | Multiply Mixed Numbers |
| | 9.3 | Practice Multiplication with Fractions and Mixed Numbers |
| | 9.4 | Apply Fraction Multiplication to Find Area |
| **Unit 4: Divide Fractions and Convert Customary Units** | | |
| | Lessons | |
| **Module 10—Understand Division with Whole Numbers and Unit Fractions** | 10.1 | Interpret a Fraction as Division |
| | 10.2 | Represent and Find the Size of Equal Parts |
| | 10.3 | Use Representations of Division of Unit Fractions by Whole Numbers |
| | 10.4 | Represent and Find the Number of Equal-Sized Parts |
| | 10.5 | Use Representations of Division of Whole Numbers by Unit Fractions |

| | Lessons | |
|---|---|---|
| **Module 11—Divide with Whole Numbers and Unit Fractions** | 11.1 | Relate Multiplication and Division of Fractions |
| | 11.2 | Divide Whole Numbers by Unit Fractions |
| | 11.3 | Interpret and Solve Division of a Whole Number by a Unit Fraction |
| | 11.4 | Divide Unit Fractions by Whole Numbers |
| | 11.5 | Interpret and Solve Division of a Unit Fraction by a Whole Number |
| | 11.6 | Solve Division Problems Using Visual Models and Equations |
| | **Lessons** | |
| **Module 12—Customary Measurement** | 12.1 | Convert Customary Measurements |
| | 12.2 | Solve Multistep Customary Measurement Problems |
| | 12.3 | Represent and Interpret Measurement Data in Line Plots |
| | 12.4 | Convert Time and Find Elapsed Time |
| **Unit 5: Add and Subtract Decimals** | | |
| | **Lessons** | |
| **Module 13—Decimal Place Value** | 13.1 | Understand Thousandths |
| | 13.2 | Read and Write Decimals to Thousandths |
| | 13.3 | Round Decimals |
| | 13.4 | Compare and Order Decimals |
| | **Lessons** | |
| **Module 14—Add and Subtract Decimals** | 14.1 | Represent Decimal Addition |
| | 14.2 | Represent Decimal Subtraction |
| | 14.3 | Assess Reasonableness of Sums and Differences |
| | 14.4 | Add Decimals |
| | 14.5 | Subtract Decimals |
| | 14.6 | Use Strategies and Reasoning to Add and Subtract |
| **Unit 6: Multiply Decimals** | | |
| | **Lessons** | |
| **Module 15—Multiply Decimals and Whole Numbers** | 15.1 | Understand Decimal Multiplication Patterns |
| | 15.2 | Represent Multiplication with Decimals and Whole Numbers |
| | 15.3 | Assess Reasonableness of Products |
| | 15.4 | Multiply Decimals by 1-Digit Whole Numbers |
| | 15.5 | Multiply Decimals by 2-Digit Whole Numbers |
| | 15.6 | Solve Problems Using Bar Models |

| | Lessons | |
|---|---|---|
| Module 16—Multiply Decimals | 16.1 | Represent Decimal Multiplication |
| | 16.2 | Multiply Decimals |
| | 16.3 | Multiply Decimals with Zeros in the Product |
| **Unit 7: Divide Decimals and Convert Metric Units** | | |
| | Lessons | |
| Module 17—Divide Decimals | 17.1 | Understand Decimal Division Patterns |
| | 17.2 | Represent Division of Decimals by Whole Numbers |
| | 17.3 | Assess Reasonableness of Quotients |
| | 17.4 | Divide Decimals by Whole Numbers |
| | 17.5 | Represent Decimal Division |
| | 17.6 | Divide Decimals |
| | 17.7 | Write Zeros in the Dividend |
| | Lessons | |
| Module 18—Customary and Metric Measurement | 18.1 | Understand Metric Conversions |
| | 18.2 | Solve Customary and Metric Conversion Problems |
| | 18.3 | Solve Multistep Measurement Problems |
| **Unit 8: Graphs, Patterns, and Geometry** | | |
| | Lessons | |
| Module 19—Graphs and Patterns | 19.1 | Describe a Coordinate System |
| | 19.2 | Understand Ordered Pairs |
| | 19.3 | Use Ordered Pairs to Represent Problems |
| | 19.4 | Generate and Identify Numerical Patterns |
| | 19.5 | Identify and Graph Relationships and Patterns |
| | Lessons | |
| Module 20—Classify Two-Dimensional Figures | 20.1 | Identify and Classify Polygons |
| | 20.2 | Classify and Organize Triangles |
| | 20.3 | Classify and Organize Quadrilaterals |
| | 20.4 | Use Venn Diagrams to Classify Two-Dimensional Figures |

# *Into Math* Table of Contents – Grade 6


| Unit 1: Number Systems and Operations | | |
|---|---|---|
| | **Lessons** | |
| **Module 1—Integer Concepts** | 1.1 | Identify and Interpret Integers |
| | 1.2 | Compare and Order Integers on a Number Line |
| | 1.3 | Find and Apply Absolute Value |
| | **Lessons** | |
| **Module 2—Rational Number Concepts** | 2.1 | Interpret Rational Numbers |
| | 2.2 | Compare Rational Numbers on a Number Line |
| | 2.3 | Find and Apply LCM and GCF |
| | 2.4 | Order Rational Numbers |
| | **Lessons** | |
| **Module 3—Fraction Division** | 3.1 | Understand Fraction Division |
| | 3.2 | Explore Division of Fractions with Unlike Denominators |
| | 3.3 | Explore Division of Mixed Numbers |
| | 3.4 | Practice and Apply Division of Fractions and Mixed Numbers |
| | 3.5 | Practice Fraction Operations |
| | **Lessons** | |
| **Module 4—Fluency with Multi-Digit Decimal Operations** | 4.1 | Add and Subtract Multi-Digit Decimals |
| | 4.2 | Multiply Multi-Digit Decimals |
| | 4.3 | Divide Multi-Digit Whole Numbers |
| | 4.4 | Divide Multi-Digit Decimals |
| | 4.5 | Apply Operations with Multi-Digit Decimals |
| **Unit 2: Ratio and Rate Reasoning** | | |
| | **Lessons** | |
| **Module 5—Ratios and Rates** | 5.1 | Understand the Concept and Language of Ratios |
| | 5.2 | Represent Ratios and Rates with Tables and Graphs |
| | 5.3 | Compare Ratios and Rates |
| | 5.4 | Find and Apply Unit Rates |
| | 5.5 | Solve Ratio and Rate Problems Using Proportional Reasoning |
| | **Lessons** | |
| **Module 6—Apply Ratios and Rates to Measurement** | 6.1 | Use Ratio Reasoning with Circle Graphs |
| | 6.2 | Use Rate Reasoning to Convert Within Measurement Systems |
| | 6.3 | Use Rate Reasoning to Convert Between Measurement Systems |
| | **Lessons** | |
| **Module 7—Understand and Apply Percent** | 7.1 | Understand, Express, and Compare Percent Ratios |
| | 7.2 | Use Strategies to Find a Percent of a Quantity |
| | 7.3 | Solve a Variety of Percent Problems |

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| Unit 3: Expressions, Equations, and Inequalities | | |
|---|---|---|
| | Lessons | |
| Module 8—Numerical and Algebraic Expressions | 8.1 | Understand and Apply Exponents |
| | 8.2 | Write and Evaluate Numerical Expressions for Situations |
| | 8.3 | Write Algebraic Expressions to Model Situations |
| | 8.4 | Interpret and Evaluate Algebraic Expressions |
| | 8.5 | Identify and Generate Equivalent Algebraic Expressions |
| | Lessons | |
| Module 9—Solve Problems Using Equations and Inequalities | 9.1 | Write Equations to Represent Situations |
| | 9.2 | Use Addition and Subtraction Equations to Solve Problems |
| | 9.3 | Use Multiplication and Division Equations to Solve Problems |
| | 9.4 | Use One-Step Equations to Solve a Variety of Problems |
| | 9.5 | Write and Graph Inequalities |
| | Lessons | |
| Module 10—Real-World Relationships Between Variables | 10.1 | Represent Equations in Tables and Graphs |
| | 10.2 | Write Equations from Verbal Descriptions |
| | 10.3 | Write Equations from Tables and Graphs |
| **Unit 4: Relationships in Geometry** | | |
| | Lessons | |
| Module 11—Polygons on the Coordinate Plane | 11.1 | Graph Rational Numbers on the Coordinate Plane |
| | 11.2 | Graph Polygons on the Coordinate Plane |
| | 11.3 | Find Distance on the Coordinate Plane |
| | 11.4 | Find Perimeter and Area on the Coordinate Plane |
| | Lessons | |
| Module 12—Area of Triangles and Special Quadrilaterals | 12.1 | Develop and Use the Formula for Area of Parallelograms |
| | 12.2 | Develop and Use the Formula for Area of Triangles |
| | 12.3 | Develop and Use the Formula for Area of Trapezoids |
| | 12.4 | Find Area of Composite Figures |
| | Lessons | |
| Module 13—Surface Area and Volume | 13.1 | Explore Nets and Surface Area |
| | 13.2 | Find Volume of Rectangular Prisms |
| | 13.3 | Solve Volume Problems |

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| Unit 5: Data Collection and Analysis | | |
|---|---|---|
| | **Lessons** | |
| **Module 14—Data Collection and Displays** | 14.1 | Explore Statistical Data Collection |
| | 14.2 | Display Data in Dot Plots |
| | 14.3 | Make Histograms and Frequency Tables |
| | **Lessons** | |
| **Module 15—Measures of Center** | 15.1 | Explore Mean as Fair Share |
| | 15.2 | Find Measures of Center |
| | 15.3 | Choose a Measure of Center |
| | **Lessons** | |
| **Module 16—Variability and Data Distribution** | 16.1 | Explore Patterns of Data |
| | 16.2 | Display Data in Box Plots |
| | 16.3 | Find Mean Absolute Deviation |
| | 16.4 | Explore Measures of Variability |
| | 16.5 | Describe Distributions |

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| Unit 1: Proportional Relationships | | |
|---|---|---|
| | **Lessons** | |
| **Module 1—Identify and Represent Proportional Relationships** | 1.1 | Explore Relationships |
| | 1.2 | Recognize Proportional Relationships in Tables |
| | 1.3 | Compute Unit Rates Involving Fractions |
| | 1.4 | Recognize Proportional Relationships in Graphs |
| | 1.5 | Use Proportional Relationships to Solve Rate Problems |
| | 1.6 | Practice Proportional Reasoning with Scale Drawings |
| | **Lessons** | |
| **Module 2—Proportional Reasoning with Percents** | 2.1 | Percent Change |
| | 2.2 | Markups and Discounts |
| | 2.3 | Taxes and Gratuities |
| | 2.4 | Commissions and Fees |
| | 2.5 | Simple Interest |
| **Unit 2: Rational Number Operations** | | |
| | **Lessons** | |
| **Module 3—Understand Addition and Subtraction of Rational Numbers** | 3.1 | Add or Subtract a Positive Integer on a Number Line |
| | 3.2 | Add or Subtract a Negative Integer on a Number Line |
| | 3.3 | Use a Number Line to Add and Subtract Rational Numbers |
| | **Lessons** | |
| **Module 4—Add and Subtract Rational Numbers** | 4.1 | Compute Sums of Integers |
| | 4.2 | Compute Differences of Integers |
| | 4.3 | Compute Sums and Differences of Rational Numbers |
| | 4.4 | Apply Properties to Multi-Step Addition and Subtraction Problems |
| | **Lessons** | |
| **Module 5—Multiply and Divide Rational Numbers** | 5.1 | Understand Multiplication and Division of Rational Numbers |
| | 5.2 | Multiply Rational Numbers |
| | 5.3 | Write Fractions as Decimals and Divide Integers |
| | 5.4 | Multiply and Divide Rational Numbers in Context |
| | **Lessons** | |
| **Module 6—Solve Multi-Step Problems Using Rational Numbers** | 6.1 | Apply Properties and Strategies to Operate with Rational Numbers |
| | 6.2 | Estimate to Check Reasonableness |
| | 6.3 | Solve Multi-Step Problems with Rational Numbers in Context |

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| Unit 3: Model with Expressions, Equations, and Inequalities | | |
|---|---|---|
| | Lessons | |
| Module 7—Solve Problems Using Expressions and Equations | 7.1 | Write Linear Expressions in Different Forms for Situations |
| | 7.2 | Add, Subtract, and Factor Linear Expressions with Rational Coefficients |
| | 7.3 | Write Two-Step Equations for Situations |
| | 7.4 | Apply Two-Step Equations to Solve Real-World Problems |
| | 7.5 | Apply Two-Step Equations to Find Angle Measures |
| | Lessons | |
| Module 8—Solve Problems Using Inequalities | 8.1 | Understand and Apply Properties to Solve One-Step Inequalities |
| | 8.2 | Write Two-Step Inequalities for Situations |
| | 8.3 | Apply Two-Step Inequalities to Solve Problems |
| **Unit 4: Geometry** | | |
| | Lessons | |
| Module 9—Draw and Analyze Two-Dimensional Figures | 9.1 | Draw Circles and Other Figures |
| | 9.2 | Draw and Construct Triangles Given Side Lengths |
| | 9.3 | Draw and Construct Triangles Given Angle Measures |
| | 9.4 | Draw and Analyze Shapes to Solve Problems |
| | Lessons | |
| Module 10—Analyze Figures to Find Circumference and Area | 10.1 | Derive and Apply Formulas for Circumference |
| | 10.2 | Derive and Apply a Formula for the Area of a Circle |
| | 10.3 | Describe and Analyze Cross Sections of Circular Solids |
| | 10.4 | Areas of Composite Figures |
| | Lessons | |
| Module 11—Analyze Surface Area and Volume | 11.1 | Describe and Analyze Cross Sections of Prisms and Pyramids |
| | 11.2 | Derive and Apply Formulas for Surface Areas of Cubes and Right Prisms |
| | 11.3 | Derive and Apply a Formula for the Volume of a Right Prism |
| | 11.4 | Solve Multi-Step Problems with Surface Area and Volume |
| **Unit 5: Sampling and Data Analysis** | | |
| | Lessons | |
| Module 12—Proportional Reasoning with Samples | 12.1 | Understand Representative Samples |
| | 12.2 | Make Inferences from a Random Sample |
| | 12.3 | Make Inferences from Repeated Random Samples |

| | Lessons | |
|---|---|---|
| **Module 13—Use Statistics and Graphs to Compare Data** | 13.1 | Compare Center and Spread of Data Displayed in Dot Plots |
| | 13.2 | Compare Center and Spread of Data Displayed in Box Plots |
| | 13.3 | Compare Means Using Mean Absolute Deviation and Repeated Sampling |
| **Unit 6: Probability** | | |
| | **Lessons** | |
| **Module 14—Understand and Apply Experimental Probability** | 14.1 | Understand Probability of an Event |
| | 14.2 | Find Experimental Probability of Simple Events |
| | 14.3 | Find Experimental Probability of Compound Events |
| | 14.4 | Use Experimental Probability and Proportional Reasoning to Make Predictions |
| | **Lessons** | |
| **Module 15—Understand and Apply Theoretical Probability** | 15.1 | Find Theoretical Probability of Simple Events |
| | 15.2 | Find Theoretical Probability of Compound Events |
| | 15.3 | Use Theoretical Probability and Proportional Reasoning to Make Predictions |
| | 15.4 | Conduct Simulations |

# *Into Math* Table of Contents – Grade 8


| Unit 1: Transformational Geometry | | |
|---|---|---|
| | **Lessons** | |
| **Module 1—Transformations and Congruence** | 1.1 | Investigate Transformations |
| | 1.2 | Explore Translations |
| | 1.3 | Explore Reflections |
| | 1.4 | Explore Rotations |
| | 1.5 | Understand and Recognize Congruent Figures |
| | **Lessons** | |
| **Module 2—Transformations and Similarity** | 2.1 | Investigate Reductions and Enlargements |
| | 2.2 | Explore Dilations |
| | 2.3 | Understand and Recognize Similar Figures |
| **Unit 2: Linear Equations and Applications** | | |
| | **Lessons** | |
| **Module 3—Solve Linear Equations** | 3.1 | Solve Multi-Step Linear Equations |
| | 3.2 | Examine Special Cases |
| | 3.3 | Apply Linear Equations |
| | **Lessons** | |
| **Module 4—Angle Relationships** | 4.1 | Develop Angle Relationships for Triangles |
| | 4.2 | Investigate Angle-Angle Similarity |
| | 4.3 | Explore Parallel Lines Cut by a Transversal |
| **Unit 3: Relationships and Functions** | | |
| | **Lessons** | |
| **Module 5—Proportional Relationships** | 5.1 | Explain Slope with Similar Triangles |
| | 5.2 | Derive $y = mx$ |
| | 5.3 | Interpret and Graph Proportional Relationships |
| | 5.4 | Compare Proportional Relationships |
| | **Lessons** | |
| **Module 6—Understand and Analyze Functions** | 6.1 | Understand and Graph Functions |
| | 6.2 | Derive and Interpret $y = mx + b$ |
| | 6.3 | Interpret Rate of Change and Initial Value |
| | 6.4 | Construct Functions |
| | 6.5 | Compare Functions |
| | 6.6 | Describe and Sketch Nonlinear Functions |

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| | Lessons | |
|---|---|---|
| Module 7—Systems of Linear Equations | 7.1 | Represent Systems by Graphing |
| | 7.2 | Solve Systems by Graphing |
| | 7.3 | Solve Systems by Substitution |
| | 7.4 | Solve Systems by Elimination |
| | 7.5 | Examine Special Systems |
| | 7.6 | Apply Systems of Equations |
| **Unit 4: Statistics and Probability** | | |
| | Lessons | |
| Module 8—Scatter Plots | 8.1 | Construct Scatter Plots and Examine Association |
| | 8.2 | Draw and Analyze Trend Lines |
| | 8.3 | Interpret Linear Data in Context |
| | Lessons | |
| Module 9—Two-Way Tables | 9.1 | Construct and Interpret Two-Way Frequency Tables |
| | 9.2 | Construct Two-Way Relative Frequency Tables |
| | 9.3 | Interpret Two-Way Relative Frequency Tables |
| **Unit 5: Real Numbers and the Pythagorean Theorem** | | |
| | Lessons | |
| Module 10—Real Numbers | 10.1 | Understand Rational and Irrational Numbers |
| | 10.2 | Investigate Roots |
| | 10.3 | Order Real Numbers |
| | Lessons | |
| Module 11—The Pythagorean Theorem | 11.1 | Prove the Pythagorean Theorem |
| | 11.2 | Prove the Converse of the Pythagorean Theorem |
| | 11.3 | Apply the Pythagorean Theorem |
| | 11.4 | Apply the Pythagorean Theorem in the Coordinate Plane |
| **Unit 6: Exponents, Scientific Notation, and Volume** | | |
| | Lessons | |
| Module 12—Exponents and Scientific Notation | 12.1 | Know and Apply Properties of Exponents |
| | 12.2 | Understand Scientific Notation |
| | 12.3 | Compute with Scientific Notation |
| | Lessons | |
| Module 13—Volume | 13.1 | Find Volume of Cylinders |
| | 13.2 | Find Volume of Cones |
| | 13.3 | Find Volume of Spheres |
| | 13.4 | Apply Volume |

# *Into AGA* Table of Contents – Algebra 1


| Unit 1: Real Numbers and Connections to Algebra | | |
|---|---|---|
| | **Lessons** | |
| **Module 1: Real Numbers and Real-World Quantities** | 1.1 | Real Numbers |
| | 1.2 | Radicals and Rational Exponents |
| | 1.3 | Precision and Accuracy in Calculations |
| | **Lessons** | |
| **Module 2: Linear Equations and Inequalities in One Variable** | 2.1 | Write, Interpret, and Simplify Expressions |
| | 2.2 | Write and Solve Equations |
| | 2.3 | Rewrite Formulas and Solve Literal Equations |
| | 2.4 | Write and Solve Inequalities |
| | 2.5 | Write and Solve Compound Inequalities |
| **Unit 2: Linear Equations in Two Variables** | | |
| | **Lessons** | |
| **Module 3: Linear Equations in Two Variables** | 3.1 | Linear Equations in Standard Form |
| | 3.2 | Slopes of Lines and Rates of Change |
| | **Lessons** | |
| **Module 4: Linear Functions and Models** | 4.1 | Relations and Functions |
| | 4.2 | Linear Functions |
| | 4.3 | Characteristics of Linear Functions |
| | 4.4 | Linear Models and Point-Slope Form |
| | **Lessons** | |
| **Module 5: Relationships Among Linear Functions** | 5.1 | Transform Graphs |
| | 5.2 | Transform Linear Functions |
| | 5.3 | Compare Linear Functions |
| | 5.4 | Inverses of Linear Functions |
| **Unit 3: Build Linear Functions and Models** | | |
| | **Lessons** | |
| **Module 6: Fit Linear Functions to Data** | 6.1 | Scatter Plots, Correlation, and Fitted Lines |
| | 6.2 | Residuals and Best-Fit Lines |
| | **Lessons** | |
| **Module 7: Discrete Linear Functions** | 7.1 | Arithmetic Sequences Defined Recursively |
| | 7.2 | Arithmetic Sequences Defined Explicitly |

# *Into AGA* Table of Contents – Algebra 1


| | Lessons | |
|---|---|---|
| Module 8: Piecewise-Defined Functions | 8.1 | Graph Piecewise-Defined Functions |
| | 8.2 | Graph Absolute Value Functions |
| | 8.3 | Absolute Value Equations and Inequalities |
| **Unit 4: Linear Systems** | | |
| | Lessons | |
| Module 9: Systems of Linear Equations | 9.1 | Solve Linear Systems by Graphing |
| | 9.2 | Solve Linear Systems by Substitution |
| | 9.3 | Solve Linear Systems by Adding or Subtracting |
| | 9.4 | Solve Linear Systems by Multiplying First |
| | Lessons | |
| Module 10: Linear Inequalities | 10.1 | Linear Inequalities in Two Variables |
| | 10.2 | Graph Systems of Linear Inequalities |
| **Unit 5: Functions and Equations** | | |
| | Lessons | |
| Module 11: Exponential Functions and Models | 11.1 | Exponential Growth Functions |
| | 11.2 | Exponential Decay Functions |
| | 11.3 | Exponential Models and Equations |
| | Lessons | |
| Module 12: Relationships Among Exponential Functions | 12.1 | Transform Exponential Functions |
| | 12.2 | Compare Exponential Functions |
| **Unit 6: Build Exponential Functions and Models** | | |
| | Lessons | |
| Module 13: Fit Exponential Functions to Data | 13.1 | Scatter Plots and Fitted Exponential Curves |
| | 13.2 | Choose Between Linear and Exponential Models |
| | Lessons | |
| Module 14: Discrete Exponential Functions | 14.1 | Geometric Sequences Defined Recursively |
| | 14.2 | Geometric Sequences Defined Explicitly |

# *Into AGA* Table of Contents – Algebra 1


| Unit 7: Polynomial Operations and Models | | |
|---|---|---|
| | **Lessons** | |
| **Module 15: Polynomial Multiplication** | 15.1 | Multiply Monomials |
| | 15.2 | Multiply Monomials, Binomials, and Trinomials |
| | 15.3 | Special Products of Binomials |
| | **Lessons** | |
| **Module 16: Polynomial Addition and Subtraction** | 16.1 | Add and Subtract Polynomials |
| | 16.2 | Model with Polynomials |
| **Unit 8: Quadratic Functions and Equations** | | |
| | **Lessons** | |
| **Module 17: Use Graphing and Factoring to Solve Quadratic Equations** | 17.1 | Solve Quadratic Equations by Graphing Quadratic Functions |
| | 17.2 | Solve Quadratic Equations by Factoring $x^2 + bx + c$ |
| | 17.3 | Solve Quadratic Equations by Factoring $ax^2 + bx + c$ |
| | 17.4 | Use Special Factoring Patterns to Solve Quadratic Equations |
| | **Lessons** | |
| **Module 18: Use Square Roots to Solve Quadratic Equations** | 18.1 | Solve Quadratic Equations by Taking Square Roots |
| | 18.2 | Solve Quadratic Equations by Completing the Square |
| | 18.3 | Use the Quadratic Formula to Solve Equations |
| | 18.4 | Choose a Method for Solving Quadratic Equations |

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| Unit 9: Functions and Models | | |
|---|---|---|
| | Lessons | |
| Module 19: Build Quadratic Functions and Models | 19.1 | Quadratic Functions in Vertex Form |
| | 19.2 | Quadratic Functions in Standard Form |
| | 19.3 | Quadratic Functions in Intercept Form |
| | 19.4 | Compare Quadratic Functions and Models |
| | 19.5 | Scatter Plots and Fitted Quadratic Curves |
| | Lessons | |
| Module 20: Function Analysis | 20.1 | Choose Among Linear, Exponential, and Quadratic Models |
| | 20.2 | Perform Operations with Functions |
| | 20.3 | Solve Nonlinear Systems |
| | 20.4 | Cubic Functions |
| **Unit 10: Data Analysis** | | |
| | Lessons | |
| Module 21: Categorical Data | 21.1 | Two-Way Frequency and Relative Frequency Tables |
| | 21.2 | Recognize Possible Associations Between Categorical Variables |
| | Lessons | |
| Module 22: Numerical Data | 22.1 | Data Distributions and Appropriate Statistics |
| | 22.2 | Compare Data Distributions |

# *Into AGA* Table of Contents – Geometry


| Unit 1: The Essentials of Geometry | | |
|---|---|---|
| | **Lessons** | |
| **Module 1: Geometry in the Plane** | 1.1 | Points, Lines, and Planes |
| | 1.2 | Define and Measure Angles |
| | 1.3 | Polygons and Figures in the Plane |
| | 1.4 | Length in the Coordinate Plane |
| | **Lessons** | |
| **Module 2: Tools for Reasoning and Proof** | 2.1 | Write Conditional Statements |
| | 2.2 | Use Inductive and Deductive Reasoning |
| | 2.3 | Write Proofs about Segments |
| | 2.4 | Write Proofs about Angles |
| **Unit 2: Parallel and Perpendicular Lines** | | |
| | **Lessons** | |
| **Module 3: Lines and Transversals** | 3.1 | Parallel Lines Crossed by a Transversal |
| | 3.2 | Prove Lines Are Parallel |
| | 3.3 | Prove Lines Are Perpendicular |
| | **Lessons** | |
| **Module 4: Lines on the Coordinate Plane** | 4.1 | Slope and Equations of Parallel Lines |
| | 4.2 | Slope and Equations of Perpendicular Lines |
| | 4.3 | Use Coordinates to Prove Statements about Segments |
| **Unit 3: Transformations** | | |
| | **Lessons** | |
| **Module 5: Transformations that Preserve Size and Shape** | 5.1 | Define and Apply Translations |
| | 5.2 | Define and Apply Rotations |
| | 5.3 | Define and Apply Reflections |
| | 5.4 | Define and Apply Symmetry |
| | **Lessons** | |
| **Module 6: Transformations that Change Size and Shape** | 6.1 | Define and Apply Dilations and Stretches |
| | 6.2 | Apply Sequences of Transformations |

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| Unit 4: Triangle Congruence | | |
|---|---|---|
| | **Lessons** | |
| **Module 7: Congruent Triangles and Polygons** | 7.1 | Understand Congruent Figures |
| | 7.2 | Corresponding Parts of Congruent Figures |
| | 7.3 | Use Rigid Motions to Prove Figures Are Congruent |
| | **Lessons** | |
| **Module 8: Triangle Congruence Criteria** | 8.1 | Develop ASA Triangle Congruence |
| | 8.2 | Develop SAS Triangle Congruence |
| | 8.3 | Develop SSS Triangle Congruence |
| | 8.4 | Develop AAS and HL Triangle Congruence |
| **Unit 5: Relationships Within Triangles** | | |
| | **Lessons** | |
| **Module 9: Properties of Triangles** | 9.1 | Angles in Triangles |
| | 9.2 | Perpendicular Bisectors |
| | 9.3 | Angle Bisectors |
| | 9.4 | Medians and Altitudes |
| | 9.5 | The Triangle Midsegment Theorem |
| | **Lessons** | |
| **Module 10: Triangle Inequalities** | 10.1 | Inequalities in One Triangle |
| | 10.2 | Inequalities in Two Triangles |
| **Unit 6: Quadrilaterals, Polygons, and Triangle Similarity** | | |
| | **Lessons** | |
| **Module 11: Quadrilaterals and Polygons** | 11.1 | Properties of Parallelograms |
| | 11.2 | Conditions for Parallelograms |
| | 11.3 | Properties of Rectangles, Rhombuses, Squares |
| | 11.4 | Conditions for Rectangles, Rhombuses, Squares |
| | 11.5 | Properties and Conditions for Trapezoids and Kites |

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| | Lessons | |
|---|---|---|
| **Module 12: Similarity** | 12.1 | Use Transformations to Prove Figures Are Similar |
| | 12.2 | Develop AA Triangle Similarity |
| | 12.3 | Develop and Prove Triangle Proportionality |
| | 12.4 | Apply Similarity in Right Triangles |
| **Unit 7: Right Triangle Trigonometry** | | |
| | **Lessons** | |
| **Module 13: Trigonometry with Right Triangles** | 13.1 | Tangent Ratio |
| | 13.2 | Sine and Cosine Ratios |
| | 13.3 | Special Right Triangles |
| | 13.4 | Modeling with Similar Right Triangles |
| | **Lessons** | |
| **Module 14: Trigonometry with All Triangles** | 14.1 | Law of Sines |
| | 14.2 | Law of Cosines |
| **Unit 8: Circles** | | |
| | **Lessons** | |
| **Module 15: Lines that Intersect Circles** | 15.1 | Central Angles and Inscribed Angles |
| | 15.2 | Angles in Inscribed Quadrilaterals |
| | 15.3 | Tangents and Circumscribed Angles |
| | 15.4 | Circles in the Coordinate Plane |
| | **Lessons** | |
| **Module 16: Relationships in Circles** | 16.1 | Segment Relationships in Circles |
| | 16.2 | Angle Relationships in Circles |
| | **Lessons** | |
| **Module 17: Circumference and Area** | 17.1 | Measure Circumference and Area of a Circle |
| | 17.2 | Measure Arc Length and Use Radians |
| | 17.3 | Measure Sector Area |

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| Unit 9: Surface Area and Volume | | |
|---|---|---|
| | **Lessons** | |
| **Module 18: Surface Area** | 18.1 | Three-Dimensional Figures |
| | 18.2 | Surface Area of Prisms and Cylinders |
| | 18.3 | Surface Area of Pyramids and Cones |
| | 18.4 | Surface Area of Spheres |
| | **Lessons** | |
| **Module 19: Volume** | 19.1 | Volume of Prisms and Cylinders |
| | 19.2 | Volume of Pyramids and Cones |
| | 19.3 | Volume of Spheres |
| **Unit 10: Probability** | | |
| | **Lessons** | |
| **Module 20: Probability of Multiple Events** | 20.1 | Probability and Set Theorem |
| | 20.2 | Mutually Exclusive and Overlapping Events |
| | **Lessons** | |
| **Module 21: Conditional Probability and Overlapping Events** | 21.1 | Conditional Probability |
| | 21.2 | Probability of Independent Events |
| | 21.2 | Probability of Dependent Events |

# *Into AGA* Table of Contents – Algebra 2


| Unit 1: Functions and Equations | | |
|---|---|---|
| | **Lessons** | |
| **Module 1: Analyzing Functions** | 1.1 | Domain, Range, and End Behavior |
| | 1.2 | Characteristics of Functions and Graphs |
| | 1.3 | Transformations of Functions |
| | 1.4 | Transformations of Absolute Value and Quadratic Functions |
| | 1.5 | Compare Functions Across Representations |
| | **Lessons** | |
| **Module 2: Solve Quadratic Equations and Systems** | 2.1 | Solve Quadratic Equations by Taking Square Roots |
| | 2.2 | Operations with Complex Numbers |
| | 2.3 | Prove and Apply the Quadratic Formula |
| | 2.4 | Solve and Graph Nonlinear Systems |
| **Unit 2: Polynomial Functions and Equations** | | |
| | **Lessons** | |
| **Module 3: Polynomial Functions** | 3.1 | Graph Polynomial Functions |
| | 3.2 | Analyze Graphs of Polynomial Functions |
| | **Lessons** | |
| **Module 4: Function Operations and Polynomials** | 4.1 | Function Operations |
| | 4.2 | Add and Subtract Polynomials |
| | 4.3 | Multiply Polynomials |
| | 4.4 | Factor Polynomials |
| | 4.5 | Divide Polynomials |
| | **Lessons** | |
| **Module 5: Polynomial Equations** | 5.1 | Solve Polynomial Equations |
| | 5.2 | The Fundamental Theorem of Algebra |
| **Unit 3: Rational Expressions and Radical Functions** | | |
| | **Lessons** | |
| **Module 6: Rational Exponents and Radical Operations** | 6.1 | Rational Exponents and *n*th Roots |
| | 6.2 | Properties of Rational Exponents and Radicals |

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| | Lessons | |
|---|---|---|
| **Module 7: Radical Functions and Equations** | 7.1 | Inverse Functions and Function Composition |
| | 7.2 | Inverses of Quadratic and Cubic Functions |
| | 7.3 | Graph Square Root Functions |
| | 7.4 | Graph Cube Root Functions |
| | 7.5 | Solve Radical Equations |
| **Unit 4: Exponential and Logarithmic Functions and Equations** | | |
| | **Lessons** | |
| **Module 8: Exponential Functions** | 8.1 | Exponential Growth and Decay Functions |
| | 8.2 | The Natural Base *e* |
| | 8.3 | Compound Interest |
| | **Lessons** | |
| **Module 9: Logarithmic Functions** | 9.1 | Logarithms and Logarithmic Functions |
| | 9.2 | Graph Logarithmic Functions |
| | 9.3 | Create Exponential and Logarithmic Functions |
| | **Lessons** | |
| **Module 10: Exponential and Logarithmic Equations** | 10.1 | Properties of Logarithms |
| | 10.2 | Solve Exponential Equations |
| | 10.3 | Solve Logarithmic Equations |
| **Unit 5: Rational Functions and Equations** | | |
| | **Lessons** | |
| **Module 11: Rational Functions** | 11.1 | Inverse Variation |
| | 11.2 | Graph Simple Rational Functions |
| | 11.3 | Graph More Complicated Rational Functions |
| | **Lessons** | |
| **Module 12: Rational Expressions and Equations** | 12.1 | Multiply and Divide Expressions |
| | 12.2 | Add and Subtract Rational Exponents |
| | 12.3 | Solve Rational Equations |

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| Unit 6: Sequences and Series | | |
|---|---|---|
| | **Lessons** | |
| **Module 13: Explicit Formulas for Sequences and Series** | 13.1 | Define Sequences and Series |
| | 13.2 | Arithmetic Sequences and Series |
| | 13.3 | Geometric Sequences and Series |
| | **Lessons** | |
| **Module 14: Recursive Formulas for Sequences** | 14.1 | Recursive Formulas for Arithmetic Sequences |
| | 14.2 | Recursive Formulas for Geometric Sequences |
| **Unit 7: Trigonometric Functions and Identities** | | |
| | **Lessons** | |
| **Module 15: Unit-Circle Definition of Trigonometric Functions** | 15.1 | Angles of Rotation and Radian Measure |
| | 15.2 | Define and Evaluate the Basic Trigonometric Functions |
| | 15.3 | Use a Pythagorean Identity |
| | **Lessons** | |
| **Module 16: Graph Trigonometric Functions** | 16.1 | Graph Sine and Cosine Functions |
| | 16.2 | Graph Tangent Functions |
| | 16.3 | Translations of Trigonometric Graphs |
| | 16.4 | Create Sine Functions to Model Periodic Phenomena |
| **Unit 8: Probability** | | |
| | **Lessons** | |
| **Module 17: Probability of Compound Events** | 17.1 | Theoretical and Experimental Probability |
| | 17.2 | Two-Way Tables and Probability |
| | 17.3 | Mutually Exclusive and Inclusive Events |
| | **Lessons** | |
| **Module 18: Probability and Decision Making** | 18.1 | Conditional Probability |
| | 18.2 | Dependent and Independent Events |
| | 18.3 | Analyze Decisions |

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| Unit 9: Statistics | | |
|---|---|---|
| | Lessons | |
| Module 19: Data Distributions | 19.1 | Probability Distributions |
| | 19.2 | Normal Distributions |
| | 19.3 | Data-Gathering Techniques |
| | 19.4 | Sampling Distributions |
| | Lessons | |
| Module 20: Make Inferences from Data | 20.1 | Confidence Intervals and Margins of Error |
| | 20.2 | Surveys, Experiments, and Observational Studies |
| | 20.3 | Make Inferences from Experimental Data |

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