Thinkwell's Homeschool Honors Grade 7 Math | Course Lesson Plan: 36 weeks

Welcome to Thinkwell's Homeschool Honors Grade 7 Math!

Thank you for making us part of your homeschool curriculum. This 36-week lesson plan is meant to be a guide for you and your homeschool student. Feel free to modify this plan to suit your individual needs.

As described below, each day your student will study a different topic and all the materials associated with that topic, such as video lectures, exercises, and worksheets. Expect to spend about an hour to an hour and a half per day on the content suggested here.

If you follow our day-by-day schedule, you'll complete the full curriculum for the course in 36 weeks. Please let us know if we can assist you with any of the material here. We're happy to be your partner in thinking well.

Schedule Overview:

Weeks 1 – 4	Chapter 1: Algebraic Reasoning
Weeks 4 – 8	Chapter 2: Integers and Rational Numbers
Weeks 8 – 11	Chapter 3: Operations with Rational Numbers
Weeks 11 – 14	Chapter 4: Proportional Relationships
Weeks 14 – 17	Chapter 5: Graphs and Functions
Weeks 17 – 19	Chapter 6: Percents
Week 20	Midterm
Weeks 20 – 22	Chapter 7: Data
Weeks 23 – 26	Chapter 8: Geometric Figures
Weeks 26 – 28	Chapter 9: Measurement: Two-Dimensional Figures
Weeks 28 – 31	Chapter 10: Measurement: Three-Dimensional Figures
Weeks 31 – 33	Chapter 11: Probability
Weeks 34 – 36	Chapter 12: Multi-Step Equations and Inequalities
Week 36	Final Exam

On the pages that follow is a week-by-week, day-by-day list of Grade 7 Math content for your student to complete in order to stay on track with Thinkwell's Honors Grade 7 Math coursework. Under each week's header you'll see what chapter your student will be working on, along with the daily assignments for that chapter.

On a given day, your student may have one or more topics to complete. The online content for that topic will typically include one or more video lessons for your student to watch. The total time for the video lessons is noted in parentheses next to the topic name.

Each topic listed in this lesson plan will have a core set of content for your student to view and complete:

We suggest that your student first open the notes for that topic. Notes will include key terms, definitions, formulas and illustrations. You may want to print the notes so that your student can take notes on the lesson content as they view the videos. Printed notes are available to purchase as a book if you choose.

Next, we suggest that your student view the video lessons in their entirety.

Finally, students can complete the topic worksheet or they can do the Thinkwell online exercise to demonstrate that they've successfully understood the concepts presented in the lesson. Worksheets and exercises are for practice only and will not count towards the course grade.

After your student has completed a section of topics, they will take a section quiz. Quizzes are available on the Assessments page, and are available to take once for a grade. Practice and Chapter Tests will be scheduled at the end of each chapter. Midterm and Final Exams are also available and are scheduled for weeks 20 and 36, respectively.

As always, feel free to modify this plan to best suit your student's needs. If at any time you require assistance with your course, please reach out to us at support@thinkwell.com.

We're happy to be your partner in thinking well.

Week 1	
Chapter 1: Algebraic Reasoning	
Assignments	*Notes*
Week 1, Day 1 ☐ 1.1.1 Numbers and Patterns (15:08)	
Week 1, Day 2 ☐ 1.1.2 Exponents (7:47)	
Week 1, Day 3 ☐ 1.1.3 Applying Exponents: Scientific Notation (9:34)	
Week 1, Day 4 ☐ 1.1.4 Order of Operations (9:06)	
Week 1, Day 5 ☐ 1.1.5 Properties (11:01)	

Week 2	
Chapter 1: Algebraic Reasoning	
Assignments	*Notes*
Week 2, Day 1 ☐ Subchapter 1.1 Worksheet: Patterns, Operations, and Properties, Part I ☐ Subchapter 1.1 Worksheet: Patterns, Operations, and Properties, Part II	
Week 2, Day 2 ☐ Subchapter 1.1 Quiz	
Week 2, Day 3 ☐ 1.2.1 Variables and Algebraic Expressions (8:53)	
Week 2, Day 4 ☐ 1.2.2 Translate Words into Math (9:59)	
Week 2, Day 5 ☐ 1.2.3 Simplifying Algebraic Expressions (14:27)	

Week 3	
Chapter 1: Algebraic Reasoning	
Assignments	*Notes*
Week 3, Day 1 ☐ 1.2.4 Equations and Their Solutions (12:21)	
Week 3, Day 2 ☐ 1.2.5 Addition and Subtraction Equations (9:06)	
Week 3, Day 3 ☐ 1.2.6 Multiplication and Division Equations (9:41)	
Week 3, Day 4 ☐ Subchapter 1.2 Worksheet: Algebraic Expressions and Equations, Part I	

☐ Subchapter 1.2 Worksheet: Algebraic Expressions and Equations, Part II	
Week 3, Day 5	
☐ Subchapter 1.2 Quiz	

Week 4 Chapter 1: Algebraic Reasoning Chapter 1 Test Chapter 2: Integers and Rational Numbers	
Assignments	*Notes*
Week 4, Day 1 ☐ Chapter 1 Practice Test	
Week 4, Day 2 ☐ Chapter 1 Test	Chapter 1 Test Score: _____
Week 4, Day 3 ☐ 2.1.1 Integers (6:52)	
Week 4, Day 4 ☐ 2.1.2 Adding Integers (10:04)	
Week 4, Day 5 ☐ 2.1.3 Subtracting Integers (8:39)	

Week 5 Chapter 2: Integers and Rational Numbers	
Assignments	*Notes*
Week 5, Day 1 ☐ 2.1.4 Multiplying and Dividing Integers (7:12)	
Week 5, Day 2 ☐ 2.1.5 Solving Equations Containing Integers (13:04)	
Week 5, Day 3 ☐ Subchapter 2.1 Worksheet: Integers, Part I ☐ Subchapter 2.1 Worksheet: Integers, Part II	
Week 5, Day 4 ☐ Subchapter 2.1 Quiz	
Week 5, Day 5 ☐ 2.2.1 Prime Factorization (11:13)	

Week 6 Chapter 2: Integers and Rational Numbers	
Assignments	*Notes*
Week 6, Day 1 ☐ 2.2.2 Greatest Common Factor (13:40)	
Week 6, Day 2 ☐ 2.2.3 Least Common Multiple (12:31)	

Week 6, Day 3 ☐ Subchapter 2.2 Worksheet: Factors and Multiples	
Week 6, Day 4 ☐ Subchapter 2.2 Quiz	
Week 6, Day 5 ☐ 2.3.1 Equivalent Fractions and Mixed Numbers (15:13)	

Week 7 Chapter 2: Integers and Rational Numbers	
Assignments	*Notes*
Week 7, Day 1 ☐ 2.3.2 Equivalent Fractions and Decimals (13:49)	
Week 7, Day 2 ☐ 2.3.3 Comparing and Ordering Rational Numbers (11:02)	
Week 7, Day 3 ☐ Subchapter 2.3 Worksheet: Rational Numbers, Part I ☐ Subchapter 2.3 Worksheet: Rational Numbers, Part II	
Week 7, Day 4 ☐ Subchapter 2.3 Quiz	
Week 7, Day 5 ☐ Chapter 2 Practice Test	

Week 8 Chapter 2 Test Chapter 3: Operations with Rational Numbers	
Assignments	*Notes*
Week 8, Day 1 ☐ Chapter 2 Test	Chapter 2 Test Score:_____
Week 8, Day 2 ☐ 3.1.1 Rounding and Estimating Decimals (7:44)	
Week 8, Day 3 ☐ 3.1.2 Adding and Subtracting Decimals (10:48)	
Week 8, Day 4 ☐ 3.1.3 Multiplying Decimals (8:24)	
Week 8, Day 5 ☐ 3.1.4 Dividing Decimals by Whole Numbers (8:47)	

Week 9	
Chapter 3: Operations with Rational Numbers	
Assignments	*Notes*
Week 9, Day 1 ☐ 3.1.5 Dividing Decimals (8:58)	
Week 9, Day 2 ☐ Subchapter 3.1 Worksheet: Operations with Decimals	
Week 9, Day 3 ☐ Subchapter 3.1 Quiz	
Week 9, Day 4 ☐ 3.2.1 Estimating Fraction Sums and Differences (9:26)	
Week 9, Day 5 ☐ 3.2.2 Multiplying Fractions and Mixed Numbers (15:09)	

Week 10	
Chapter 3: Operations with Rational Numbers	
Assignments	*Notes*
Week 10, Day 1 ☐ 3.2.3 Dividing Fractions and Mixed Numbers (12:28)	
Week 10, Day 2 ☐ 3.2.4 Adding and Subtracting Fractions and Mixed Numbers (19:53)	
Week 10, Day 3 ☐ 3.2.5 Solving Equations with Rational Numbers (10:46)	
Week 10, Day 4 ☐ Subchapter 3.2 Worksheet: Operations with Fractions	
Week 10, Day 5 ☐ Subchapter 3.2 Quiz	

Week 11	
Chapter 3: Operations with Rational Numbers Chapter 3 Test Chapter 4: Proportional Relationships	
Assignments	*Notes*
Week 11, Day 1 ☐ Chapter 3 Practice Test	
Week 11, Day 2 ☐ Chapter 3 Test	Chapter 3 Test Score:_____
Week 11, Day 3 ☐ 4.1.1 Ratios (7:49) ☐ 4.1.2 Rates (7:12)	
Week 11, Day 4 ☐ 4.1.3 Identifying and Writing Proportions (6:44) ☐ 4.1.4 Solving Proportions (4:27)	
Week 11, Day 5 ☐ Subchapter 4.1 Worksheet: Ratios, Rates, and Proportions	

Week 12	
Chapter 4: Proportional Relationships	
Assignments	*Notes*
Week 12, Day 1 ☐ Subchapter 4.1 Quiz	
Week 12, Day 2 ☐ 4.2.1 Customary Measurement (9:28)	
Week 12, Day 3 ☐ 4.2.2 Metric Measurements (13:00)	
Week 12, Day 4 ☐ 4.2.3 Dimensional Analysis (14:20)	
Week 12, Day 5 ☐ 4.2.4 Similar Figures and Proportions (6:22)	

Week 13	
Chapter 4: Proportional Relationships	
Assignments	*Notes*
Week 13, Day 1 ☐ 4.2.5 Using Similar Figures (11:17)	
Week 13, Day 2 ☐ 4.2.6 Scale Drawings and Scale Models (8:18)	
Week 13, Day 3 ☐ Subchapter 4.2 Worksheet: Measurement	
Week 13, Day 4 ☐ Subchapter 4.2 Quiz	
Week 13, Day 5 ☐ Chapter 4 Practice Test	

Week 14	
Chapter 4 Test	
Chapter 5: Graphs and Functions	
Assignments	*Notes*
Week 14, Day 1 ☐ Chapter 4 Test	Chapter 4 Test Score: _____
Week 14, Day 2 ☐ 5.1.1 The Coordinate Plane (6:24) ☐ 5.1.2 Tables and Graphs (6:17)	
Week 14, Day 3 ☐ 5.1.3 Interpreting Graphs (7:02)	
Week 14, Day 4 ☐ 5.1.4 Functions, Tables, and Graphs (9:43)	
Week 14, Day 5 ☐ 5.1.5 Find the Pattern in Sequences (8:22)	

Week 15	
Chapter 5: Graphs and Functions	
Assignments	*Notes*
Week 15, Day 1	
☐ Subchapter 5.1 Worksheet: Functions, Tables, and Graphs	
Week 15, Day 2	
☐ Subchapter 5.1 Quiz	
Week 15, Day 3	
☐ 5.2.1 Graphing Linear Functions (9:59)	
Week 15, Day 4	
☐ 5.2.2 Slopes and Rates of Change (14:57)	
Week 15, Day 5	
☐ 5.2.3 Slope-Intercept Form (18:41)	

Week 16	
Chapter 5: Graphs and Functions	
Assignments	*Notes*
Week 16, Day 1	
☐ 5.2.4 Direct Variation (20:53)	
Week 16, Day 2	
☐ 5.2.5 Inverse Variation (10:34)	
Week 16, Day 3	
☐ Subchapter 5.2 Worksheet: Linear Functions	
Week 16, Day 4	
☐ Subchapter 5.2 Quiz	
Week 16, Day 5	
☐ Chapter 5 Practice Test	

Week 17	
Chapter 5 Test	
Chapter 6: Percents	
Assignments	*Notes*
Week 17, Day 1	Chapter 5 Test
☐ Chapter 5 Test	Score: _____
Week 17, Day 2	
☐ 6.1.1 Percents (8:40)	
Week 17, Day 3	
☐ 6.1.2 Percents, Decimals, and Fractions (6:31)	
Week 17, Day 4	
☐ 6.1.3 Estimating with Percents (5:42)	
Week 17, Day 5	
☐ 6.1.4 Finding Percents (8:12)	

Week 18	
Chapter 6: Percents	
Assignments	*Notes*
Week 18, Day 1	
☐ Subchapter 6.1 Worksheet: Proportions and Percents	
Week 18, Day 2	
☐ Subchapter 6.1 Quiz	
Week 18, Day 3	
☐ 6.2.1 Finding a Number When the Percent is Known (7:40)	
Week 18, Day 4	
☐ 6.2.2 Percent Increase and Decrease (12:36)	
Week 18, Day 5	
☐ 6.2.3 Simple Interest (11:34)	

Week 19	
Chapter 6: Percents	
Chapter 6 Test	
Assignments	*Notes*
Week 19, Day 1	
☐ Subchapter 6.2 Worksheet: Applying Percents	
Week 19, Day 2	
☐ Subchapter 6.2 Quiz	
Week 19, Day 3	
☐ Chapter 6 Practice Test	
Week 19, Day 4	Chapter 6 Test
☐ Chapter 6 Test	Score: _____
Week 19, Day 5	
☐ Midterm Practice Exam	

Week 20	
Midterm Exam	
Chapter 7: Data	
Assignments	*Notes*
Week 20, Day 1	Midterm Exam
☐ **Midterm Exam**	Score: _____
Week 20, Day 2	
☐ 7.1.1 Frequency Tables, Stem-and-Leaf Plots, and Line Plots (12:56)	
Week 20, Day 3	
☐ 7.1.2 Mean, Median, Mode, and Range (16:29)	
Week 20, Day 4	
☐ 7.1.3 Bar Graphs and Histograms (12:21)	
Week 20, Day 5	
☐ 7.1.4 Reading and Interpreting Circle Graphs (7:30)	

Week 21	
Chapter 7: Data	
Assignments	*Notes*
Week 21, Day 1 ☐ 7.1.5 Box-and-Whisker Plots (5:15)	
Week 21, Day 2 ☐ Subchapter 7.1 Worksheet: Organizing and Displaying Data	
Week 21, Day 3 ☐ Subchapter 7.1 Quiz	
Week 21, Day 4 ☐ 7.2.1 Line Graphs (10:21)	
Week 21, Day 5 ☐ 7.2.2 Choosing an Appropriate Display (5:30) ☐ 7.2.3 Populations and Samples (8:00)	

Week 22	
Chapter 7: Data	
Chapter 7 Test	
Assignments	*Notes*
Week 22, Day 1 ☐ 7.2.4 Scatter Plots (7:37) ☐ 7.2.5 Misleading Graphs (5:58)	
Week 22, Day 2 ☐ Subchapter 7.2 Worksheet: Representing and Analyzing Data	
Week 22, Day 3 ☐ Subchapter 7.2 Quiz	
Week 22, Day 4 ☐ Chapter 7 Practice Test	
Week 22, Day 5 ☐ Chapter 7 Test	Chapter 7 Test Score: _____

Week 23	
Chapter 8: Geometric Figures	
Assignments	*Notes*
Week 23, Day 1 ☐ 8.1.1 Points, Lines, and Planes (10:51)	
Week 23, Day 2 ☐ 8.1.2 Angles and Their Relationships (12:18)	
Week 23, Day 3 ☐ 8.1.3 Geometric Relationships (2:58)	
Week 23, Day 4 ☐ Subchapter 8.1 Worksheet: Lines and Angles	
Week 23, Day 5 ☐ Subchapter 8.1 Quiz	

Week 24	
Chapter 8: Geometric Figures	
Assignments	*Notes*
Week 24, Day 1	
☐ 8.2.1 Classifying Polygons (5:59) ☐ 8.2.2 Classifying Triangles (6:47)	
Week 24, Day 2	
☐ 8.2.3 Classifying Quadrilaterals (4:45) ☐ 8.2.4 Angles in Polygons (7:37)	
Week 24, Day 3	
☐ Subchapter 8.2 Worksheet: Circles and Polygons	
Week 24, Day 4	
☐ Subchapter 8.2 Quiz	
Week 24, Day 5	
☐ 8.3.1 Congruent Figures (7:37)	

Week 25	
Chapter 8: Geometric Figures	
Assignments	*Notes*
Week 25, Day 1	
☐ 8.3.2 Translations, Reflections, and Rotations (13:22)	
Week 25, Day 2	
☐ 8.3.3 Dilations (8:53)	
Week 25, Day 3	
☐ 8.3.4 Symmetry (5:52)	
Week 25, Day 4	
☐ Subchapter 8.3 Worksheet: Transformations	
Week 25, Day 5	
☐ Subchapter 8.3 Quiz	

Week 26	
Chapter 8: Geometric Figures	
Chapter 8 Test	
Chapter 9: Measurement: Two-Dimensional Figures	
Assignments	*Notes*
Week 26, Day 1	
☐ Chapter 8 Practice Test	
Week 26, Day 2	Chapter 8 Test
☐ Chapter 8 Test	Score: _____
Week 26, Day 3	
☐ 9.1.1 Accuracy and Precision (4:20) ☐ 9.1.2 Perimeter and Circumference (5:44)	

	Notes
Week 26, Day 4 ☐ 9.1.3 Area of Parallelograms (6:48) ☐ 9.1.4 Area of Triangles and Trapezoids (7:32)	
Week 26, Day 5 ☐ 9.1.5 Area of Circles (7:16)	

Week 27 Chapter 9: Measurement: Two-Dimensional Figures	
Assignments	*Notes*
Week 27, Day 1 ☐ 9.1.6 Area of Irregular Figures (6:43)	
Week 27, Day 2 ☐ Subchapter 9.1 Worksheet: Perimeter, Circumference, and Area, Part I ☐ Subchapter 9.1 Worksheet: Perimeter, Circumference, and Area, Part II	
Week 27, Day 3 ☐ Subchapter 9.1 Quiz	
Week 27, Day 4 ☐ 9.2.1 Squares and Square Roots (9:48)	
Week 27, Day 5 ☐ 9.2.2 The Pythagorean Theorem (10:45)	

Week 28 Chapter 9: Measurement: Two-Dimensional Figures Chapter 9 Test Chapter 10: Measurement: Three-Dimensional Figures	
Assignments	*Notes*
Week 28, Day 1 ☐ Subchapter 9.2 Worksheet: Square Roots and the Pythagorean Theorem	
Week 28, Day 2 ☐ Subchapter 9.2 Quiz	
Week 28, Day 3 ☐ Chapter 9 Practice Test	
Week 28, Day 4 ☐ Chapter 9 Test	Chapter 9 Test Score: _____
Week 28, Day 5 ☐ 10.1.1 Introduction to Three-Dimensional Figures (6:44)	

Week 29	
Chapter 10: Measurement: Three-Dimensional Figures	
Assignments	Notes
Week 29, Day 1 ☐ 10.1.2 Volume of Prisms and Cylinders (13:20)	
Week 29, Day 2 ☐ 10.1.3 Volume of Pyramids and Cones (5:26)	
Week 29, Day 3 ☐ Subchapter 10.1 Worksheet: Volume	
Week 29, Day 4 ☐ Subchapter 10.1 Quiz	
Week 29, Day 5 ☐ 10.2.1 Surface Area of Prisms and Cylinders (23:01)	

Week 30	
Chapter 10: Measurement: Three-Dimensional Figures	
Assignments	Notes
Week 30 Day 1 ☐ 10.2.2 Surface Area of Pyramids and Cones (8:13)	
Week 30, Day 2 ☐ 10.2.3 Changing Dimensions (9:16)	
Week 30, Day 3 ☐ Subchapter 10.2 Worksheet: Surface Area	
Week 30, Day 4 ☐ Subchapter 10.2 Quiz	
Week 30, Day 5 ☐ Chapter 10 Practice Test	

Week 31	
Chapter 10 Test Chapter 11: Probability	
Assignments	Notes
Week 31, Day 1 ☐ Chapter 10 Test	Chapter 10 Test Score: _____
Week 31, Day 2 ☐ 11.1.1 Probability (7:56)	
Week 31, Day 3 ☐ 11.1.2 Experimental Probability (6:17)	
Week 31, Day 4 ☐ 11.1.3 Make a List to Find Sample Spaces (11:18)	
Week 31, Day 5 ☐ 11.1.4 Theoretical Probability (6:37)	

Week 32	
Chapter 11: Probability	
Assignments	*Notes*
Week 32, Day 1 ☐ Subchapter 11.1 Worksheet: Introduction to Probability	
Week 32, Day 2 ☐ Subchapter 11.1 Quiz	
Week 32, Day 3 ☐ 11.2.1 Making Predictions (11:50)	
Week 32, Day 4 ☐ 11.2.2 Probability of Independent and Dependent Events (8:38)	
Week 32, Day 5 ☐ 11.2.3 Combinations (7:10)	

Week 33	
Chapter 11: Probability Chapter 11 Test	
Assignments	*Notes*
Week 33, Day 1 ☐ 11.2.4 Permutations (8:08)	
Week 33, Day 2 ☐ Subchapter 11.2 Worksheet: Applications of Probability	
Week 33, Day 3 ☐ Subchapter 11.2 Quiz	
Week 33, Day 4 ☐ Chapter 11 Practice Test	
Week 33, Day 5 ☐ Chapter 11 Test	Chapter 11 Test Score: ____

Week 34	
Chapter 12: Multi-Step Equations and Inequalities	
Assignments	*Notes*
Week 34, Day 1 ☐ 12.1.1 Solving Two-Step Equations (11:33)	
Week 34, Day 2 ☐ 12.1.2 Solving Multi-Step Equations (8:23)	
Week 34, Day 3 ☐ 12.1.3 Solving Equations with Variables on Both Sides (11:49)	
Week 34, Day 4 ☐ Subchapter 12.1 Worksheet: Multi-Step Equations	
Week 34, Day 5 ☐ Subchapter 12.1 Quiz	

Week 35	
Chapter 12: Multi-Step Equations and Inequalities	
Assignments	*Notes*
Week 35, Day 1 ☐ 12.2.1 Inequalities (9:48)	
Week 35, Day 2 ☐ 12.2.2 Solving Inequalities by Adding or Subtracting (10:37)	
Week 35, Day 3 ☐ 12.2.3 Solving Inequalities by Multiplying or Dividing (11:31)	
Week 35, Day 4 ☐ 12.2.4 Solving Two-Step Inequalities (11:24)	
Week 35, Day 5 ☐ Subchapter 12.2 Worksheet: Inequalities	

Week 36	
Chapter 12: Multi-Step Equations and Inequalities Chapter 12 Test Final Exam	
Assignments	*Notes*
Week 36, Day 1 ☐ Subchapter 12.2 Quiz	
Week 36, Day 2 ☐ Chapter 12 Practice Test	
Week 36, Day 3 ☐ Chapter 12 Test	Chapter 12 Test Score: ____
Week 36, Day 4 ☐ Practice Final Exam	
Week 36, Day 5 ☐ **Final Exam**	Final Exam Test Score: ____