prealgebra

Daily Course Lesson Plan

On the pages that follow is a daily lesson guide for you and your student to follow in order to stay on track with Thinkwell's Prealgebra coursework.

Under each week's header you'll see which chapters are covered along with each day's assignments for that week. The duration for each topic's video lesson is also noted. Feel free to work as quickly or as slowly through the content as is appropriate for your student's learning style.

We suggest printing this daily lesson plan and keeping it handy. Please let us know if you have any questions about the content here. Email us at support@thinkwell.com.

Welcome to Thinkwell's Homeschool Prealgebra!

Thank you for making us part of your homeschool curriculum. This 36-week daily 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.

Suggested Weekly Pacing Guide:

Week 1	1.1 Expressions and Properties of Numbers
Week 2	1.2 Operations with Integers
Week 3	1.3 Equations and Inequalities
Week 4	Test – 1.1, 1.2, & 1.3
Week 5	2.1 Operations with Rational Numbers
Week 6	2.2 Equations with Rational Numbers
Week 7	Test – 2.1 & 2.2
Week 8	3.1 Tables and Graphs
Week 9	3.2 Introduction to Functions and Sequences
Week 10	Test – 3.1 & 3.2
Week 11	4.1 Properties of Exponents
Week 12	4.2 Square Roots and the Pythagorean Theorem
Week 13	Test - 4.1 & 4.2
Week 14	5.1 Ratios, Rates, and Proportions
Week 15	5.2 Similarity, Scale, and Measurement ◆ Test – 5.1 & 5.2
Week 16	6.1 Proportions and Percents

Week 17	6.2 Applying Percents 🔷 Test – 6.1 & 6.2
Week 18	Exam – Modules 1-17
Week 19	7.1 Points, Lines, and Angles
Week 20	7.2 Polygons
Week 21	7.3 Patterns in Geometry
Week 22	Test - 7.1, 7.2, & 7.3
Week 23	8.1 Perimeter and Area
Week 24	8.2 Three-Dimensional Geometry
Week 25	8.2 Three-Dimensional Geometry (Continued)
Week 26	Test - 8.1 & 8.2
Week 27	9.1 Collecting and Describing Data
Week 28	9.2 Data Displays
Week 29	Test – 9.1 & 9.2
Week 30	10.1 Experimental Probability
Week 31	10.2 Theoretical Probability and Counting
Week 32	10.2 Theoretical Probability and Counting (Continued) 🔷 Test – 10.1 & 10.2
Week 33	11.1 Solving Equations
Week 34	11.2 Solving Inequalities and Systems of Equations
Week 35	Test – 11.1 & 11.2
Week 36	Exam – Modules 19-35

Week 1 1.1 Expressions and Properties of Numbers

Week 1 1.1 Expressions and Properties of Numbers	
Assignments	Notes
Week 1, Day 1 ☐ 1.1.1 Introduction to Exponents (4:01)	
Week 1, Day 2 ☐ 1.1.2 Using the Order of Operations (6:53) ☐ 1.1.3 Variables and Algebraic Expressions (8:53)	
Week 1, Day 3 ☐ 1.1.4 Translate Words into Math (9:59) ☐ 1.1.5 Properties of Numbers (7:50)	
Week 1, Day 4 ☐ 1.1 Review Worksheet	
Week 1, Day 5 ☐ Quiz – 1.1	Score:
Week 2 1.2 Operations with Integers	
Assignments	Notes
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Assignments	Notes
Week 2, Day 1 ☐ 1.2.1 Integers (6:52) ☐ 1.2.2 Adding Integers (10:05)	
Week 2, Day 2 ☐ 1.2.3 Subtracting Integers (8:39)	
Week 2, Day 3 ☐ 1.2.4 Multiplying and Dividing Integers (6:24)	
Week 2, Day 4 ☐ 1.2 Review Worksheet	
Week 2, Day 5 ☐ Quiz – 1.2	Score:

Week 3 1.3 Equations and Inequalities

Assignments	Notes
Week 3, Day 1 ☐ 1.3.1 Addition and Subtraction Equations (9:06)	
Week 3, Day 2 ☐ 1.3.2 Multiplication and Division Equations (09:41)	
Week 3, Day 3 ☐ 1.3.3 Introduction to Inequalities (10:29)	
Week 3, Day 4 ☐ 1.3 Review Worksheet	
Week 3, Day 5 ☐ Quiz – 1.3	Score:

Week 4 Test – 1.1, 1.2, & 1.3

Assignments	Notes
Week 4, Day 1	
☐ Practice Test – 1.1, 1.2, & 1.3 (Day 1)	
Week 4, Day 2	
☐ Practice Test – 1.1, 1.2, & 1.3 (Day 2, <i>as needed</i>)	
Week 4, Day 3	
☐ Practice Test – 1.1, 1.2, & 1.3 (Day 3, as needed)	
Week 4, Day 4	
Practice Test – 1.1, 1.2, & 1.3 (Day 4, as needed)	
Week 4, Day 5	
☐ Test - 1.1, 1.2, & 1.3	Score:
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Week 5 2.1 Operations with Rational Numbers

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Assignments	Notes
Week 5, Day 1 ☐ 2.1.1 Rational Numbers (10:30) ☐ 2.1.2 Comparing and Ordering Rational Numbers (10:45)	
Week 5, Day 2 ☐ 2.1.3 Adding and Subtracting Rational Numbers (1:12)	
Week 5, Day 3 ☐ 2.1.4 Multiplying Rational Numbers (10:24) ☐ 2.1.5 Dividing Rational Numbers (13:11)	
Week 5, Day 4 ☐ 2.1 Review Worksheet, Part 1 ☐ 2.1 Review Worksheet, Part 2	
Week 5, Day 5 ☐ Quiz – 2.1	Score:

Week 6 2.2 Equations with Rational Numbers

Assignments	Notes
Week 6, Day 1 ☐ 2.2.1 Solving Equations with Rational Numbers (10:46)	
Week 6, Day 2 ☐ 2.2.2 Solving Two-Step Equations (9:10)	
Week 6, Day 3 ☐ 2.2 Review Worksheet	
Week 6, Day 4 ☐ 2.2 Review Worksheet (Day 2, as needed)	
Week 6, Day 5 ☐ Quiz – 2.2	Score:

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Week 7 Test - 2.1 & 2.2

Assignments	Notes
Week 7, Day 1 ☐ Practice Test – 2.1 & 2.2 (Day 1)	
Week 7, Day 2 □ Practice Test – 2.1 & 2.2 (Day 2, αs needed)	
Week 7, Day 3 ☐ Practice Test – 2.1 & 2.2 (Day 3, as needed)	
Week 7, Day 4 ☐ Practice Test – 2.1 & 2.2 (Day 4, as needed)	
Week 7, Day 5 ☐ Test - 2.1 & 2.2	Score:

Week 8 3.1 Tables and Graphs

Assignments	Notes
<u>Week 8, Day 1</u> ☐ 3.1.1 Ordered Pairs (7:48)	
Week 8, Day 2 ☐ 3.1.2 Graphing on a Coordinate Plane (11:04)	
Week 8, Day 3 ☐ 3.1.3 Interpreting Graphs and Tables (13:08)	
Week 8, Day 4 ☐ 3.1 Review Worksheet	
Week 8, Day 5 ☐ Quiz - 3.1	Score:

Week 9 3.2 Introduction to Functions and Sequences

Assignments	Notes
Week 9, Day 1 ☐ 3.2.1 Functions (15:41)	
Week 9, Day 2 ☐ 3.2.2 Equations, Tables, and Graphs (9:06)	
Week 9, Day 3 ☐ 3.2.3 Arithmetic Sequences (10:47)	
Week 9, Day 4 ☐ 3.2 Review Worksheet	
Week 9, Day 5 ☐ Quiz – 3.2	Score:

Week 10 Test - 3.1 & 3.2

Assignments	Notes
Week 10, Day 1	
Practice Test – 3.1 & 3.2 (Day 1)	
Week 10, Day 2 ☐ Practice Test – 3.1 & 3.2 (Day 2, αs needed)	
Week 10, Day 3 ☐ Practice Test – 3.1 & 3.2 (Day 3, as needed)	
Week 10, Day 4 ☐ Practice Test – 3.1 & 3.2 (Day 4, as needed)	
Week 10, Day 5 ☐ Test - 3.1 & 3.2	Score:

Week 11 4.1 Properties of Exponents

Assignments	Notes
Week 11, Day 1 ☐ 4.1.1 Product and Power Properties of Exponents ☐ 4.1.2 Integer Exponents	
Week 11, Day 2 ☐ 4.1.3 Quotient Properties of Exponents	
Week 11, Day 3 ☐ 4.1.4 An Application of Exponents: Scientific Notation	
Week 11, Day 4 ☐ 4.1 Review Worksheet, Part 1 ☐ 4.1 Review Worksheet, Part 2	
Week 11, Day 5 ☐ Quiz - 4.1	Score:

Week 12 4.2 Square Roots and the Pythagorean Theorem

Assignments	Notes
Week 12, Day 1 ☐ 4.2.1 Square Roots and Real Numbers (11:06)	
Week 12, Day 2 ☐ 4.2.2 Operations with Square Roots (16:38)	
Week 12, Day 3 ☐ 4.2.3 The Pythagorean Theorem and the Distance Formula (19:23)	
Week 12, Day 4 ☐ 4.2 Review Worksheet	
Week 12, Day 5 ☐ Quiz – 4.2	Score:

Week 13 Test - 4.1 & 4.2

Assignments	Notes
Week 13, Day 1	
Practice Test – 4.1 & 4.2 (Day 1)	
Week 13, Day 2	
Practice Test – 4.1 & 4.2 (Day 2, as needed)	
Week 13, Day 3 Practice Test – 4.1 & 4.2 (Day 3, αs needed)	
Week 13, Day 4 ☐ Practice Test – 4.1 & 4.2 (Day 4, as needed)	
Week 13, Day 5	
■ Test – 4.1 & 4.2	Score:
Week 14 5.1 Ratios, Rates, and Proportions	,
Assignments	Notes
Week 14, Day 1 5.1.1 Ratios and Proportions (6:34) 5.1.2 Ratios, Rates, and Unit Rates (14:44)	
Week 14, Day 2	
5.1.3 Dimensional Analysis (14:30)	
Week 14, Day 3 ☐ 5.1.4 Solving Proportions (8:04)	
Week 14, Day 4 ☐ 5.1 Review Worksheet	
Week 14, Day 5	
Quiz – 5.1	Score:
Week 15 5.2 Similarity, Scale, and Measurement ◆ Test – 5.1 & 5.2	
Assignments	Notes
Week 15, Day 1 ☐ 5.2.1 Similar Figures (9:59) ☐ 5.2.2 Dilations (9:57)	
Week 15, Day 2 ☐ 5.2.3 Indirect Measurement (7:05) ☐ 5.2.4 Scale Drawings and Scale Models (7:35)	
Week 15, Day 3 ☐ 5.2 Review Worksheet ☐ Quiz – 5.2	Score:
	Score:
Week 15, Day 4 ☐ Practice Test – 5.1 & 5.2	
Week 15, Day 5 ☐ Test - 5.1 & 5.2	Score:

Week 16 6.1 Proportions and Percents

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Assignments	Notes
Week 16, Day 1 ☐ 6.1.1 Relating Decimals, Fractions, and Percents (8:26) ☐ 6.1.2 Estimate with Percents (5:42)	
Week 16, Day 2 6.1.3 Finding Percents (8:12)	
Week 16, Day 3 ☐ 6.1.4 Finding a Number When the Percent is Known (7:40)	
Week 16, Day 4 ☐ 6.1 Review Worksheet	
Week 16, Day 5 ☐ Quiz – 6.1	Score:
Week 17 6.2 Applying Percents ◆ Test – 6.1 & 6.2	
Assignments	Notes
Week 17, Day 1 6.2.1 Percent Increase and Decrease (12:36) 6.2.2 Applications of Percents (9:34)	
Week 17, Day 2 ☐ 6.2.3 Simple Interest (11:34) ☐ 6.2 Review Worksheet	
Week 17, Day 3 ☐ Quiz – 6.2	Score:
Week 17, Day 4 ☐ Practice Test – 6.1 & 6.2	
Week 17, Day 5 ☐ Test - 6.1 & 6.2	Score:
Week 18 Exam – Modules 1-17	
Assignments	Notes
Week 18, Day 1 ☐ Practice Exam – Modules 1-17 (Day 1)	
Week 18, Day 2 □ Practice Exam – Modules 1-17 (Day 2, αs needed)	
Week 18, Day 3 □ Practice Exam – Modules 1-17 (Day 3, αs needed)	
Week 18, Day 4 Practice Exam – Modules 1-17 (Day 4, αs needed)	
Week 18, Day 5 Exam - Modules 1-17	Score:

Week 19 7.1 Points, Lines, and Angles

Assignments	Notes
Week 19, Day 1 ☐ 7.1.1 Points, Lines, and Planes (10:51)	
Week 19, Day 2 ☐ 7.1.2 Angles and Their Relationships (12:18)	
Week 19, Day 3 ☐ 7.1 Review Worksheet (Day 1)	
Week 19, Day 4 ☐ 7.1 Review Worksheet (Day 2, αs needed)	
Week 19, Day 5 ☐ Quiz - 7.1	Score:

Week 20 7.2 Polygons

Assignments	Notes
<u>Week 20, Day 1</u> ☐ 7.2.1 Triangles (19:07)	
Week 20, Day 2 7.2.2 Classifying Polygons (10:51)	
Week 20, Day 3 ☐ 7.2.3 Coordinate Geometry (19:18)	
Week 20, Day 4 ☐ 7.2.4 Congruence (6:04) ☐ 7.2 Review Worksheet	
Week 20, Day 5 ☐ Quiz - 7.2	Score:

Week 21 7.3 Patterns in Geometry

Assignments	Notes
Week 21, Day 1 ☐ 7.3.1 Transformations (13:43)	
Week 21, Day 2 ☐ 7.3.2 Symmetry (5:52)	
Week 21, Day 3 ☐ 7.3.3 Tessellations (7:18)	
Week 21, Day 4 ☐ 7.3 Review Worksheet	
Week 21, Day 5 ☐ Quiz - 7.3	Score:

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Week 22 Test 7.1, 7.2, & 7.3

Assignments	Notes
Week 22, Day 1 ☐ Practice Test – 7.1, 7.2, & 7.3 (Day 1)	
Week 22, Day 2 ☐ Practice Test – 7.1, 7.2, & 7.3 (Day 2, as needed)	
Week 22, Day 3 ☐ Practice Test – 7.1, 7.2, & 7.3 (Day 3, αs needed)	
Week 22, Day 4 ☐ Practice Test – 7.1, 7.2, & 7.3 (Day 4, as needed)	
Week 22, Day 5 ☐ Test - 7.1, 7.2, & 7.3	Score:

Week 23 8.1 Perimeter and Area

Assignments	Notes
Week 20, Day 1 ☐ 8.1.1 Perimeter and Area of Rectangles and Parallelograms (15:06)	
Week 20, Day 2 ☐ 8.1.2 Perimeter and Area of Triangles and Trapezoids (15:19)	
Week 20, Day 3 ☐ 8.1.3 Circles (17:07)	
Week 20, Day 4 ☐ 8.1 Review Worksheet	
Week 20, Day 5 ☐ Quiz - 8.1	Score:

Week 24 8.2 Three-Dimensional Geometry

Assignments	Notes
Week 24, Day 1 ☐ 8.2.1 Drawing Three-Dimensional Figures (10:04)	
Week 24, Day 2 ☐ 8.2.2 Volume of Prisms and Cylinders (16:11)	
Week 24, Day 3 ☐ 8.2.2 Volume of Prisms and Cylinders (16:11) (Continued)	
Week 24, Day 4 ☐ 8.2.3 Volume of Pyramids and Cones (16:05)	
Week 24, Day 5 ☐ 8.2.4 Surface Area of Prisms and Cylinders (13:56)	

Week 25 8.2 Three-Dimensional Geometry (Continued)

Assignments	Notes
Week 25, Day 1 ☐ 8.2.5 Surface Area of Pyramids and Cones (15:48)	
Week 25, Day 2 ☐ 8.2.6 Spheres (11:45)	
Week 25, Day 3 ☐ 8.2.7 Scaling Three-Dimensional Figures (11:12)	
Week 25, Day 4 ☐ 8.2.8 Converting Units of Measurement (10:32)	
Week 25, Day 5 ☐ 8.2 Review Worksheet ☐ Quiz - 8.2	Score:

Week 26 Test – 8.1 & 8.2

Assignments	Notes
Week 26, Day 1 ☐ Practice Test – 8.1 & 8.2 (Day 1)	
Week 26, Day 2 ☐ Practice Test – 8.1 & 8.2 (Day 2, as needed)	
Week 26, Day 3 ☐ Practice Test – 8.1 & 8.2 (Day 3, as needed)	
Week 26, Day 4 ☐ Practice Test – 8.1 & 8.2 (Day 4, as needed)	
Week 26, Day 5 ☐ Test - 8.1 & 8.2	Score:

Week 27 9.1 Collecting and Describing Data

Assignments	Notes
Week 27, Day 1 ☐ 9.1.1 Samples and Surveys (8:16) ☐ 9.1.2 Identifying Sampling Errors and Bias (5:17)	
Week 27, Day 2 ☐ 9.1.3 Organizing Data (18:15) ☐ 9.1.4 Measures of Central Tendency (2:11)	
Week 27, Day 3 9.1.5 Variability and Box-and-Whisker Plots (23:13)	
Week 27, Day 4 ☐ 9.1 Review Worksheet	
Week 27, Day 5 ☐ Quiz – 9.1	Score:

Week 28 9.2 Data Displays

Assignments	Notes
Week 28, Day 1 ☐ 9.2.1 Displaying Data (15:08)	
Week 28, Day 2 ☐ 9.2.2 Analyzing Data Displays (10:03)	
Week 28, Day 3 ☐ 9.2.3 Misleading Graphs and Statistics (9:27) ☐ 9.2.4 Scatter Plots (7:29)	
Week 28, Day 4 ☐ 9.2.5 Choosing the Best Representation of Data (6:39) ☐ 9.2 Review Worksheet	
Week 28, Day 5 ☐ Quiz – 9.2	Score:
Week 29 Test - 9 1 & 9 2	

Assignments	Notes
Week 29, Day 1 ☐ Practice Test – 9.1 & 9.2 (Day 1)	
Week 29, Day 2 ☐ Practice Test – 9.1 & 9.2 (Day 2, as needed)	
Week 29, Day 3 ☐ Practice Test – 9.1 & 9.2 (Day 3, as needed)	
Week 29, Day 4 ☐ Practice Test – 9.1 & 9.2 (Day 4, as needed)	
Week 29, Day 5 ☐ Test - 9.1 & 9.2	Score:

Week 30 10.1 Experimental Probability

Assignments	Notes
Week 30, Day 1 ☐ 10.1.1 Probability (18:04)	
Week 30, Day 2 ☐ 10.1.2 Experimental Probability (17:30)	
Week 30, Day 3 ☐ 10.1.3 Use a Simulation (8:32)	
Week 30, Day 4 ☐ 10.1 Review Worksheet	
Week 30, Day 5 ☐ Quiz – 10.1	Score:

Week 31 10.2 Theoretical Probability and Counting

Assignments	Notes
Week 31, Day 1 ☐ 10.2.1 Theoretical Probability (17:59)	
Week 31, Day 2 ☐ 10.2.2 Independent and Dependent Events (14:47)	
Week 31, Day 3 ☐ 10.2.3 Making Decisions and Predictions (8:49)	
Week 31, Day 4 ☐ 10.2.4 Odds (9:39)	
Week 31, Day 5 ☐ 10.2.5 Counting Principles (17:37)	

Week 32 10.2 Theoretical Probability and Counting (Continued) ◆ Test − 10.1 & 10.2

Assignments	Notes
Week 32, Day 1 ☐ 10.2.6 Permutations and Combinations (12:49)	
Week 32, Day 2 ☐ 10.2 Review Worksheet	
Week 32, Day 3 ☐ Quiz – 10.2	Score:
Week 32, Day 4 ☐ Practice Test – 10.1 & 10.2	
Week 32, Day 5 ☐ Test - 10.1 & 10.2	Score:

Week 33 11.1 Solving Equations

Assignments	Notes
Week 33, Day 1 ☐ 11.1.1 Simplifying Algebraic Expressions (7:07) ☐ 11.1.2 Solving Multi-Step Equations (19:35)	
Week 33, Day 2 ☐ 11.1.3 Solving Equations with Variables on Both Sides (21:11)	
Week 33, Day 3 ☐ 11.1.4 Solving Literal Equations (10:52)	
Week 33, Day 4 ☐ 11.1 Review Worksheet, Part 1 ☐ 11.1 Review Worksheet, Part 2	
Week 33, Day 5 ☐ Quiz – 11.1	Score:

Week 34 11.2 Solving Inequalities and Systems of Equation

Assignments	Notes
Week 34, Day 1 ☐ 11.2.1 Solving Inequalities by Multiplying or Dividing (9:02)	
Week 34, Day 2 ☐ 11.2.2 Solving Multi-Step Inequalities (19:28)	
Week 34, Day 3 ☐ 11.2.3 Systems of Equations (10:35)	
Week 34, Day 4 ☐ 11.2 Review Worksheet	
Week 34, Day 5 Quiz − 11.2	Score:

Week 35 Test - 11.1 & 11.2

Assignments	Notes
Week 35, Day 1 ☐ Practice Test – 11.1 & 11.2 (Day 1)	
Week 35, Day 2 ☐ Practice Test – 11.1 & 11.2 (Day 2, αs needed)	
Week 35, Day 3 ☐ Practice Test – 11.1 & 11.2 (Day 3, as needed)	
Week 35, Day 4 ☐ Practice Test – 11.1 & 11.2 (Day 4, as needed)	
Week 35, Day 5 ☐ Test - 11.1 & 11.2	Score:

Week 36 Exam – Modules 19-35

Assignments	Notes
Week 36, Day 1 ☐ Practice Exam – Modules 19-35 (Day 1)	
Week 36, Day 2 Practice Exam – Modules 19-35 (Day 2, αs needed)	
Week 36, Day 3 Practice Exam – Modules 19-35 (Day 3, αs needed)	
Week 36, Day 4 Practice Exam – Modules 19-35 (Day 4, αs needed)	
Week 36, Day 5 ☐ Exam - Modules 19-35	Score: