

## Thinkwell's Homeschool Geometry

### Course Lesson Plan: 34 weeks

Welcome to Thinkwell's Homeschool Geometry! We're thrilled that you've decided to make us part of your homeschool curriculum. This lesson plan is meant to be a guide for you and your homeschool student. Each day, you'll tackle a different topic and all the materials associated with that topic, such as video lectures, notes, worksheets, exercises, and interactivities. If you follow our day-by-day schedule, you'll complete the full curriculum for the course in 34 weeks. Feel free to modify and amend the plan as it best works for you. And, as always, please [let us know](#) what we can do to help you get you up and running with Thinkwell's Geometry!

<b>Week 1</b>	
<b>Chapter 1: Fundamentals of Geometry</b>	
Assignments	Notes
<b><u>Week 1, Day 1</u></b>	
1.1.1 Understanding Points, Lines, and Planes	
<b><u>Week 1, Day 2</u></b>	
1.1.2 Measuring and Constructing Segments	
<b><u>Week 1, Day 3</u></b>	
1.1.2 Measuring and Constructing Segments	
<b><u>Week 1, Day 4</u></b>	
1.1.3 Measuring and Constructing Angles	
<b><u>Week 1, Day 5</u></b>	
1.1.4 Pairs of Angles	

<b>Week 2</b>	
<b>Chapter 1: Fundamentals of Geometry</b>	
Assignments	Notes
<b><u>Week 2, Day 1</u></b>	
1.1.4 Pairs of Angles	
<b><u>Week 2, Day 2</u></b>	
Subchapter 1.1 Worksheet: Points, Lines, Planes, and Angles	
<b><u>Week 2, Day 3</u></b>	
1.2.1 Using Formulas in Geometry	
<b><u>Week 2, Day 4</u></b>	
1.2.2 Midpoint and Distance in the Coordinate Plane	
<b><u>Week 2, Day 5</u></b>	
1.2.2 Midpoint and Distance in the Coordinate Plane	

<b>Week 3</b>	
<b>Chapter 1: Fundamentals of Geometry</b>	
<b>Chapter 1 Test</b>	
Assignments	Notes
<b><u>Week 3, Day 1</u></b>	
1.2.3 Transformations in the Coordinate Plane	

<b>Week 3, Day 2</b> Subchapter 1.2 Worksheet: Coordinate and Transformation Tools	
<b>Week 3, Day 3</b> Study for Chapter 1 Test	
<b>Week 3, Day 4</b> Chapter 1 Practice Test	
<b>Week 3, Day 5</b> Chapter 1 Test	Chapter 1 Test Score: _____

<b>Week 4</b> <b>Chapter 2: Reasoning and Writing Geometric Proofs</b>	
Assignments	Notes
<b>Week 4, Day 1</b> 2.1.1 Using Inductive Reasoning to Make Conjectures	
<b>Week 4, Day 2</b> 2.1.2 Conditional Statements	
<b>Week 4, Day 3</b> 2.1.3 Using Deductive Reasoning to Verify Conjectures	
<b>Week 4, Day 4</b> 2.1.4 Biconditional Statements and Definitions	
<b>Week 4, Day 5</b> Subchapter 2.1 Worksheet: Inductive and Deductive Reasoning	

<b>Week 5</b> <b>Chapter 2: Reasoning and Writing Geometric Proofs</b>	
Assignments	Notes
<b>Week 5, Day 1</b> 2.2.1 Algebraic Proof	
<b>Week 5, Day 2</b> 2.2.2 Geometric Proof	
<b>Week 5, Day 3</b> 2.2.3 Flowchart and Paragraph Proof	
<b>Week 5, Day 4</b> Subchapter 2.2 Worksheet: Mathematical Proof	
<b>Week 5, Day 5</b> Study for Chapter 2 Test	

<b>Week 6</b> <b>Chapter 2 Test</b> <b>Chapter 3: Parallel and Perpendicular Lines</b>	
Assignments	Notes
<b>Week 6, Day 1</b> Chapter 2 Practice Test	

<b>Week 6, Day 2</b> Chapter 2 Test	Chapter 2 Test Score: _____
<b>Week 6, Day 3</b> 3.1.1 Planes, Lines, and Angles	
<b>Week 6, Day 4</b> 3.1.2 Angles, Parallel Lines, and Transversals	
<b>Week 6, Day 5</b> 3.1.3 Proving that Lines are Parallel	

<b>Week 7</b> <b>Chapter 3: Parallel and Perpendicular Lines</b>	
Assignments	Notes
<b>Week 7, Day 1</b> 3.1.4 Properties of Perpendicular Lines	
<b>Week 7, Day 2</b> Subchapter 3.1 Worksheet: Lines with Transversals	
<b>Week 7, Day 3</b> 3.2.1 Finding the Slope Given Two Points	
<b>Week 7, Day 4</b> 3.2.2 Slope-Intercept Form	
<b>Week 7, Day 5</b> 3.2.3 Point-Slope Form	

<b>Week 8</b> <b>Chapter 3: Parallel and Perpendicular Lines</b>	
Assignments	Notes
<b>Week 8, Day 1</b> 3.2.3 Point-Slope Form	
<b>Week 8, Day 2</b> 3.2.4 Slopes of Parallel and Perpendicular Lines	
<b>Week 8, Day 3</b> 3.2.4 Slopes of Parallel and Perpendicular Lines	
<b>Week 8, Day 4</b> Subchapter 3.2 Worksheet: Slope and the Equation of a Line	
<b>Week 8, Day 5</b> Study for Chapter 3 Test	

<b>Week 9</b> <b>Chapter 3 Test</b> <b>Chapter 4: Triangle Congruence</b>	
Assignments	Notes
<b>Week 9, Day 1</b> Chapter 3 Practice Test	

<b>Week 9, Day 2</b> Chapter 3 Test	Chapter 3 Test Score: _____
<b>Week 9, Day 3</b> 4.1.1 Classifying Triangles	
<b>Week 9, Day 4</b> 4.1.2 Angle Relationships in Triangles	
<b>Week 9, Day 5</b> 4.1.3 Congruent Triangles	

<b>Week 10</b> <b>Chapter 4: Triangle Congruence</b>	
Assignments	Notes
<b>Week 10, Day 1</b> Subchapter 4.1 Worksheet: Triangles and Congruence	
<b>Week 10, Day 2</b> 4.2.1 Triangle Congruence: SSS and SAS	
<b>Week 10, Day 3</b> 4.2.2 Triangle Congruence: ASA, AAS, and HL	
<b>Week 10, Day 4</b> 4.2.3 Triangle Congruence: CPCTC	
<b>Week 10, Day 5</b> 4.2.4 Introduction to Coordinate Proof	

<b>Week 11</b> <b>Chapter 4: Triangle Congruence</b> <b>Chapter 4 Test</b>	
Assignments	Notes
<b>Week 11, Day 1</b> 4.2.5 Isosceles and Equilateral Triangles	
<b>Week 11, Day 2</b> Subchapter 4.2 Worksheet: Proving Triangle Congruence	
<b>Week 11, Day 3</b> Study for Chapter 4 Test	
<b>Week 11, Day 4</b> Chapter 4 Practice Test	
<b>Week 11, Day 5</b> Chapter 4 Test	Chapter 4 Test Score: _____

<b>Week 12</b> <b>Chapter 5: Properties and Attributes of Triangles</b>	
Assignments	Notes
<b>Week 12, Day 1</b> 5.1.1 Perpendicular and Angle Bisector Theorems	

<b><u>Week 12, Day 2</u></b> 5.1.2 Medians, Altitudes, and Midsegments in Triangles	
<b><u>Week 12, Day 3</u></b> Subchapter 5.1 Worksheet: Segments in Triangles	
<b><u>Week 12, Day 4</u></b> 5.2.1 Indirect Proof and Inequalities in One Triangle	
<b><u>Week 12, Day 5</u></b> 5.2.1 Indirect Proof and Inequalities in One Triangle	

<b>Week 13</b> <b>Chapter 5: Properties and Attributes of Triangles</b>	
Assignments	Notes
<b><u>Week 13, Day 1</u></b> 5.2.2 Inequalities in Two Triangles	
<b><u>Week 13, Day 2</u></b> 5.2.3 The Pythagorean Theorem	
<b><u>Week 13, Day 3</u></b> 5.2.4 Applying Special Right Triangles	
<b><u>Week 13, Day 4</u></b> Subchapter 5.2 Worksheet: Relationships in Triangles	
<b><u>Week 13, Day 5</u></b> Study for Chapter 5 Test	

<b>Week 14</b> <b>Chapter 5 Test</b> <b>Chapter 6: Polygons and Quadrilaterals</b>	
Assignments	Notes
<b><u>Week 14, Day 1</u></b> Chapter 5 Practice Test	
<b><u>Week 14, Day 2</u></b> Chapter 5 Test	Chapter 5 Test Score: _____
<b><u>Week 14, Day 3</u></b> 6.1.1 Properties and Attributes of Polygons	
<b><u>Week 14, Day 4</u></b> 6.1.1 Properties and Attributes of Polygons	
<b><u>Week 14, Day 5</u></b> 6.1.2 Properties of Parallelograms	

<b>Week 15</b> <b>Chapter 6: Polygons and Quadrilaterals</b>	
Assignments	Notes
<b><u>Week 15, Day 1</u></b> 6.1.3 Conditions for Parallelograms	

<b>Week 15, Day 2</b> Subchapter 6.1 Worksheet: Polygons and Parallelograms	
<b>Week 15, Day 3</b> 6.2.1 Properties of Special Parallelograms	
<b>Week 15, Day 4</b> 6.2.2 Conditions for Special Parallelograms	
<b>Week 15, Day 5</b> 6.2.3 Properties of Kites and Trapezoids	

<b>Week 16</b> <b>Chapter 6: Polygons and Quadrilaterals</b> <b>Chapter 6 Test</b>	
Assignments	Notes
<b>Week 16, Day 1</b> 6.2.3 Properties of Kites and Trapezoids	
<b>Week 16, Day 2</b> Subchapter 6.2 Worksheet: Other Special Quadrilaterals	
<b>Week 16, Day 3</b> Study for Chapter 6 Test	
<b>Week 16, Day 4</b> Chapter 6 Practice Test	
<b>Week 16, Day 5</b> Chapter 6 Test	Chapter 6 Test Score: _____

<b>Week 17</b> <b>Midterm Exam</b> <b>Chapter 7: Similarity</b>	
Assignments	Notes
<b>Week 17, Day 1</b> Study for Midterm Exam	
<b>Week 17, Day 2</b> Study for Midterm Exam	
<b>Week 17, Day 3</b> Midterm Practice Exam	
<b>Week 17, Day 4</b> Midterm Exam	Midterm Exam Score: _____
<b>Week 17, Day 5</b> 7.1.1 Ratio and Proportion	

<b>Week 18</b> <b>Chapter 7: Similarity</b>	
Assignments	Notes
<b>Week 18, Day 1</b> 7.1.1 Ratio and Proportion	

<b>Week 18, Day 2</b> 7.1.2 Ratios in Similar Polygons	
<b>Week 18, Day 3</b> 7.1.3 Triangle Similarity: AA, SSS, and SAS	
<b>Week 18, Day 4</b> 7.1.3 Triangle Similarity: AA, SSS, and SAS	
<b>Week 18, Day 5</b> Subchapter 7.1 Worksheet: Similarity Relationships	

<b>Week 19</b> <b>Chapter 7: Similarity</b>	
Assignments	Notes
<b>Week 19, Day 1</b> 7.2.1 Applying Properties of Similar Triangles	
<b>Week 19, Day 2</b> 7.2.2 Using Proportional Relationships	
<b>Week 19, Day 3</b> 7.2.3 Dilations and Similarity in the Coordinate Plane	
<b>Week 19, Day 4</b> Subchapter 7.2 Worksheet: Applying Similarity	
<b>Week 19, Day 5</b> Study for Chapter 7 Test	

<b>Week 20</b> <b>Chapter 7 Test</b> <b>Chapter 8: Right Triangles and Trigonometry</b>	
Assignments	Notes
<b>Week 20, Day 1</b> Chapter 7 Practice Test	
<b>Week 20, Day 2</b> Chapter 7 Test	Chapter 7 Test Score: _____
<b>Week 20, Day 3</b> 8.1.1 Similarity in Right Triangles	
<b>Week 20, Day 4</b> 8.1.2 Trigonometric Ratios	
<b>Week 20, Day 5</b> 8.1.2 Trigonometric Ratios	

<b>Week 21</b> <b>Chapter 8: Right Triangles and Trigonometry</b>	
Assignments	Notes
<b>Week 21, Day 1</b> 8.1.3 Solving Right Triangles	

<b>Week 21, Day 2</b> 8.1.3 Solving Right Triangles	
<b>Week 21, Day 3</b> Subchapter 8.1 Worksheet: Trigonometric Ratios	
<b>Week 21, Day 4</b> 8.2.1 Angles of Elevation and Depression	
<b>Week 21, Day 5</b> 8.2.2 Law of Sines and Law of Cosines	

<b>Week 22</b> <b>Chapter 8: Right Triangles and Trigonometry</b>	
Assignments	Notes
<b>Week 22, Day 1</b> 8.2.3 Vectors	
<b>Week 22, Day 2</b> 8.2.3 Vectors	
<b>Week 22, Day 3</b> Subchapter 8.2 Worksheet: Applying Trigonometric Ratios	
<b>Week 22, Day 4</b> Study for Chapter 8 Test	
<b>Week 22, Day 5</b> Chapter 8 Practice Test	

<b>Week 23</b> <b>Chapter 8 Test</b> <b>Chapter 9: Extending Perimeter, Circumference, and Area</b>	
Assignments	Notes
<b>Week 23, Day 1</b> Chapter 8 Test	Chapter 8 Test Score: _____
<b>Week 23, Day 2</b> 9.1.1 Developing Formulas for Triangles and Quadrilaterals	
<b>Week 23, Day 3</b> 9.1.2 Developing Formulas for Circles and Regular Polygons	
<b>Week 23, Day 4</b> 9.1.3 Composite Figures	
<b>Week 23, Day 5</b> Subchapter 9.1 Worksheet: Developing Geometric Formulas	

<b>Week 24</b> <b>Chapter 9: Extending Perimeter, Circumference, and Area</b>	
Assignments	Notes
<b>Week 24, Day 1</b> 9.2.1 Perimeter and Area in the Coordinate Plane	

<b>Week 24, Day 2</b> 9.2.2 Effects of Changing Dimensions Proportionally	
<b>Week 24, Day 3</b> 9.2.3 Geometric Probability	
<b>Week 24, Day 4</b> Subchapter 9.2 Worksheet: Applying Geometric Formulas	
<b>Week 24, Day 5</b> Study for Chapter 9	

<b>Week 25</b> <b>Chapter 9 Test</b> <b>Chapter 10: Spatial Reasoning</b>	
Assignments	Notes
<b>Week 25, Day 1</b> Chapter 9 Practice Test	
<b>Week 25, Day 2</b> Chapter 9 Test	Chapter 9 Test Score: _____
<b>Week 25, Day 3</b> 10.1.1 Solid Geometry	
<b>Week 25, Day 4</b> 10.1.2 Representations of Three-Dimensional Figures	
<b>Week 25, Day 5</b> 10.1.3 Formulas in Three Dimensions	

<b>Week 26</b> <b>Chapter 10: Spatial Reasoning</b>	
Assignments	Notes
<b>Week 26, Day 1</b> 10.1.3 Formulas in Three Dimensions	
<b>Week 26, Day 2</b> Subchapter 10.1 Worksheet: Three-Dimensional Figures	
<b>Week 26, Day 3</b> 10.2.1 Surface Area of Prisms and Cylinders	
<b>Week 26, Day 4</b> 10.2.1 Surface Area of Prisms and Cylinders	
<b>Week 26, Day 5</b> 10.2.2 Surface Area of Pyramids and Cones	

<b>Week 27</b> <b>Chapter 10: Spatial Reasoning</b>	
Assignments	Notes
<b>Week 27, Day 1</b> 10.2.2 Surface Area of Pyramids and Cones	

<b><u>Week 27, Day 2</u></b> 10.2.3 Volume of Prisms and Cylinders	
<b><u>Week 27, Day 3</u></b> 10.2.3 Volume of Prisms and Cylinders	
<b><u>Week 27, Day 4</u></b> 10.2.4 Volume of Pyramids and Cones	
<b><u>Week 27, Day 5</u></b> 10.2.4 Volume of Pyramids and Cones	

<b>Week 28</b>	
<b>Chapter 10: Spatial Reasoning</b>	
Assignments	Notes
<b><u>Week 28, Day 1</u></b> 10.2.5 Spheres	
<b><u>Week 28, Day 2</u></b> 10.2.5 Spheres	
<b><u>Week 28, Day 3</u></b> Subchapter 10.2: Surface Area and Volume	
<b><u>Week 28, Day 4</u></b> Study for Chapter 10 Test	
<b><u>Week 28, Day 5</u></b> Chapter 10 Practice Test	

<b>Week 29</b>	
<b>Chapter 10 Test</b>	
<b>Chapter 11: Circles</b>	
Assignments	Notes
<b><u>Week 29, Day 1</u></b> Chapter 10 Test	Chapter 10 Test Score: ___
<b><u>Week 29, Day 2</u></b> 11.1.1 Lines that Intersect Circles	
<b><u>Week 29, Day 3</u></b> 11.1.2 Arcs and Chords	
<b><u>Week 29, Day 4</u></b> 11.1.3 Sector Area and Arc Length	
<b><u>Week 29, Day 5</u></b> Subchapter 11.1 Worksheet: Lines and Arcs in Circles	

<b>Week 30</b>	
<b>Chapter 11: Circles</b>	
Assignments	Notes
<b><u>Week 30, Day 1</u></b> 11.2.1 Inscribed Angles	

<b>Week 30, Day 2</b> 11.2.2 Angle Relationships in Circles	
<b>Week 30, Day 3</b> 11.2.2 Angle Relationships in Circles	
<b>Week 30, Day 4</b> 11.2.3 Segment Relationships in Circles	
<b>Week 30, Day 5</b> 11.2.4 Circles in the Coordinate Plane	

<b>Week 31</b> <b>Chapter 11: Circles</b> <b>Chapter 11 Test</b> <b>Chapter 12: Transformational Geometry</b>	
Assignments	Notes
<b>Week 31, Day 1</b> Subchapter 11.2 Worksheet: Angles and Segments in Circles	
<b>Week 31, Day 2</b> Study for Chapter 11 Test	
<b>Week 31, Day 3</b> Chapter 11 Practice Test	
<b>Week 31, Day 4</b> Chapter 11 Test	Chapter 11 Test Score: ____
<b>Week 31, Day 5</b> 12.1.1 Reflections	

<b>Week 32</b> <b>Chapter 12: Transformational Geometry</b>	
Assignments	Notes
<b>Week 32, Day 1</b> 12.1.2 Translations	
<b>Week 32, Day 2</b> 12.1.3 Rotations	
<b>Week 32, Day 3</b> 12.1.4 Compositions of Transformations	
<b>Week 32, Day 4</b> Subchapter 12.1 Worksheet: Congruence Transformations	
<b>Week 32, Day 5</b> 12.2.1 Symmetry	

<b>Week 33</b> <b>Chapter 12: Transformational Geometry</b>	
Assignments	Notes
<b>Week 33, Day 1</b> 12.2.2 Tessellations	

<b><u>Week 33, Day 2</u></b> 12.2.3 Dilations	
<b><u>Week 33, Day 3</u></b> Subchapter 12.2 Worksheet: Patterns	
<b><u>Week 33, Day 4</u></b> Study for Chapter 12 Test	
<b><u>Week 33, Day 5</u></b> Chapter 12 Practice Test	

<b>Week 34</b> <b>Chapter 12 Test</b> <b>Final Exam</b>	
Assignments	Notes
<b><u>Week 34, Day 1</u></b> Chapter 12 Test	Chapter 12 Test Score: ____
<b><u>Week 34, Day 2</u></b> Study for Final Exam	
<b><u>Week 34, Day 3</u></b> Study for Final Exam	
<b><u>Week 34, Day 4</u></b> Final Practice Exam	
<b><u>Week 34, Day 5</u></b> Final Exam	Final Exam Score: ____