thinkwell 🛠 homeschool

honors geo metry

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 Honors Geometry 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 Honors Geometry!

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.

	, 3
Week 1	1.1 Points, Lines, Planes, and Angles
Week 2	1.1 Points, Lines, Planes, and Angles (Cont.) 🔷 1.2 Coordinate and Transformation Tools
Week 3	1.2 Coordinate and Transformation Tools (Cont.) 🔷 Test 1.1 & 1.2 🔷 2.1 Inductive and Deductive Reasoning
Week 4	2.1 Inductive and Deductive Reasoning (Cont.)
Week 5	2.2 Mathematical Proof
Week 6	Test 2.1 & 2.2 🔷 3.1 Lines with Transversals
Week 7	3.1 Lines with Transversals (Cont.) 🔷 3.2 Slope and the Equation of a Line
Week 8	3.2 Slope and the Equation of a Line (Cont.)
Week 9	3.2 Slope and the Equation of a Line (Cont.) 🔷 Test 3.1 & 3.2 🔷 4.1 Triangles and Congruence
Week 10	4.1 Triangles and Congruence (Cont.) 🔷 4.2 Proving Triangle Congruence
Week 11	4.2 Proving Triangle Congruence (Cont.)
Week 12	Test 4.1 & 4.2 🔷 5.1 Segments in Triangles
Week 13	5.1 Segments in Triangles (Cont.) 🔷 5.2 Relationships in Triangles
Week 14	5.2 Relationships in Triangles (Cont.) 🔷 Test 5.1 & 5.2
Week 15	6.1 Polygons and Parallelograms
Week 16	6.1 Polygons and Parallelograms (Cont.) 🔷 6.2 Other Special Quadrilaterals

Suggested Weekly Pacing Guide:

www.thinkwellhomeschool.com

Week 17	6.2 Other Special Quadrilaterals (Cont.) 🔷 Test 6.1 & 6.2
Week 18	Exam – Modules 1-17 🔷 7.1 Similarity Relationships
Week 19	7.1 Similarity Relationships (Cont.) 🔷 7.2 Applying Similarity
Week 20	7.2 Applying Similarity (Cont.) 🔷 Test 7.1 & 7.2 🔷 8.1 Trigonometric Ratios
Week 21	8.1 Trigonometric Ratios (Cont.)
Week 22	8.1 Trigonometric Ratios (Cont.) 🔷 8.2 Applying Trigonometric Ratios
Week 23	8.2 Applying Trigonometric Ratios (Cont.) 🔷 Test – 8.1 & 8.2
Week 24	9.1 Developing Geometric Formulas
Week 25	9.1 Developing Geometric Formulas (Cont.) 🔷 9.2 Applying Geometric Formulas
Week 26	9.2 Applying Geometric Formulas (Cont.) 🔷 Test – 9.1 & 9.2 🔷 10.1 Three-Dimensional Figures
Week 27	10.1 Three-Dimensional Figures (Cont.)
Week 28	10.2 Surface Area and Volume
Week 29	10.2 Surface Area and Volume (Cont.)
Week 30	10.2 Surface Area and Volume (Cont.) 🔷 Test – 10.1 & 10.2 🔷 11.1 Lines and Arcs in Circles
Week 31	11.1 Lines and Arcs in Circles (Cont.) 🔷 11.2 Angles and Segments in Circles
Week 32	11.2 Angles and Segments in Circles (Cont.)
Week 33	11.2 Angles and Segments in Circles (Cont.) 🔷 Test 11.1 & 11.2 🔷 12.1 Congruence Transformations
Week 34	12.1 Congruence Transformations (Cont.)
Week 35	12.1 Congruence Transformations (Cont.) 🔷 12.2 Patterns
Week 36	12.2 Patterns (Cont.) 🔷 Test – 12.1 & 12.2 🔷 Exam – Modules 19-35

Suggested Daily Pacing Guide:

Week 1 1.1 Points, Lines, Planes, and Angles

Assignments	Notes
Week 1. Day 1	
1.1.1 Understanding Points, Lines, and Planes (8:27)	
Week 1. Day 2 1.1.2 Measuring and Constructing Segments (14:12)	
Week 1. Day 3 1.1.3 Measuring and Constructing Angles (13:44)	
Week 1. Day 4 1.1.4 Pairs of Angles (11:59)	
Week 1, Day 5 1.1 Review Worksheet: Points, Lines, Planes, and Angles	

Week 2 1.1 Points, Lines, Planes, and Angles (Cont.) 🔷 1.2 Coordinate and Transformation Tools

Assignments	Notes
Week 2. Day 1	
Quiz – 1.1	Score:
Week 2, Day 2 1.2.1 Using Formulas in Geometry (7:11)	
Week 2, Day 3 1.2.2 Midpoint and Distance in the Coordinate Plane (16:20), <i>day 1</i>	
Week 2, Day 4 1.2.2 Midpoint and Distance in the Coordinate Plane (16:20), <i>day 2</i>	
Week 2. Day 5 1.2.3 Transformations in the Coordinate Plane (10:57)	

Week 3 1.2 Coordinate and Transformation Tools (Cont.) Test 1.1 & 1.2 2.1 Inductive and Deductive Reasoning

Assignments	Notes
Week 3, Day 1 1.2 Review Worksheet: Coordinate and Transformation Tools	
Week 3, Day 2 Quiz – 1.2	Score:
<u>Week 3, Day 3</u> Practice Test – 1.1 & 1.2	
Week 3. Day 4 Test – 1.1 & 1.2	Score:
Week <u>3. Day 5</u> 2.1.1 Using Inductive Reasoning to Make Conjectures (11:48)	

Week 4	2.1 Inductive and Deductive Reasoning (Cont.)
--------	---

Assignments	Notes
Week 4, Day 1 2.1.2 Conditional Statements (9:33)	
Week 4. Day 2 2.1.3 Using Deductive Reasoning to Verify Conjectures (12:49)	
Week 4. Day 3 2.1.4 Biconditional Statements and Definitions (7:52)	
Week 4. Day 4 2.1 Review Worksheet: Inductive and Deductive Reasoning	
Week 4, Day 5 Quiz – 2.1	Score:

Week 5 2.2 Mathematical Proof

Assignments	Notes
Week 5, Day 1 2.2.1 Algebraic Proof (9:03)	
Week 5. Day 2 2.2.2 Geometric Proof (10:05)	
Week 5, Day 3 2.2.3 Flowchart and Paragraph Proofs (13:20)	
Week 5, Day 4 2.2 Review Worksheet: Mathematical Proof	
Week 5, Day 5 Quiz – 2.2	Score:

Week 6 Test 2.1 & 2.2 🔷 3.1 Lines with Transversals

Assignments	Notes
Week 6, Day 1	
Practice Test – 2.1 & 2.2	
Week 6, Day 2	
Test – 2.1 & 2.2	Score:
Week 6, Day 3	
3.1.1 Planes, Lines, and Angles (14:31)	
Week 6. Day 4	
3.1.2 Angles, Parallel Lines, and Transversals (16:39)	
Week 6. Day 5	
3.1.3 Proving that Lines are Parallel (15:37)	

Week 7 3.1 Lines with Transversals (Cont.) \diamondsuit 3.2 Slope and the Equation of a Line

Assignments	Notes
Week 7, Day 1 3.1.4 Properties of Perpendicular Lines (13:59)	
Week 7, Day 2 3.1 Review Worksheet: Lines with Transversals	
Week 7, Day 3 Quiz – 3.1	Score:
Week 7, Day 4 3.2.1 Finding the Slope Given Two Points (9:45)	
Week 7. Day 5 3.2.2 Slope-Intercept Form (18:41)	

Week 8 3.2 Slope and the Equation of a Line (Cont.)

Assignments	Notes
<u>Week 8, Day 1</u> 3.2.3 Point-Slope Form (25:53), <i>day 1</i>	
<u>Week 8, Day 2</u> 3.2.3 Point-Slope Form (25:53), <i>day 2</i>	
<u>Week 8, Day 3</u> 3.2.4 Slopes of Parallel and Perpendicular Lines (15:00), <i>day 1</i>	
Week 8, Day 4 3.2.4 Slopes of Parallel and Perpendicular Lines (15:00), dαy 2	
Week 8. Day 5 3.2 Review Worksheet: Slope and the Equation of a Line	

Week 9 3.2 Slope and the Equation of a Line (Cont.) Test 3.1 & 3.2 4.1 Triangles and Congruence

Assignments	Notes
Week 9, Day 1	
Quiz – 3.2	Score:
Week 9. Day 2	
Practice Test – 3.1 & 3.2	
Week 9, Day 3	
Test – 3.1 & 3.2	Score:
Week 9. Day 4	
4.1.1 Classifying Triangles (8:51)	
Week 9, Day 5	
4.1.2 Angle Relationships in Triangles (12:06)	

Week 10 4.1 Triangles and Congruence (Cont.) 🔶 4.2 Proving Triangle Congruence

Assignments	Notes
Week 10, Day 1 4.1.3 Congruent Triangles (15:28)	
Week 10, Day 2 4.1 Review Worksheet: Triangles and Congruence	
Week 10, Day 3 Quiz – 4.1	Score:
Week 10, Day 4 4.2.1 Triangle Congruence: SSS and SAS (10:11)	
Week 10, Day 5 4.2.2 Triangle Congruence: ASA, AAS, and HL (9:30)	

Week 11 4.2 Proving Triangle Congruence (Cont.)

Assignments	Notes
Week <u>11, Day 1</u> 4.2.3 Triangle Congruence: CPCTC (14:28)	
Week <u>11, Day 2</u> 4.2.4 Introduction to Coordinate Proof (18:22)	
Week <u>11, Day 3</u> 4.2.5 Isosceles and Equilateral Triangles (15:17)	
Week 11. Day 4 4.2 Review Worksheet: Proving Triangle Congruence	
Week 11, Day 5 Quiz – 4.2	Score:

Week 12 Test 4.1 & 4.2 \diamondsuit 5.1 Segments in Triangles

Assignments	Notes
Week <u>12. Day 1</u> Practice Test – 4.1 & 4.2	
Week 12, Day 2 Test – 4.1 & 4.2	Score:
Week 12, Day 3 5.1.1 Perpendicular and Angle Bisector Theorems (22:59)	
Week 12, Day 4 5.1.2 Medians, Altitudes, and Midsegments in Triangles (19:53)	
Week <u>12, Day 5</u> 1 5.1 Review Worksheet: Segments in Triangles	

Assignments	Notes
Week 13, Day 1 Quiz – 5.1	Score:
Week 13, Day 2 5.2.1 Indirect Proof and Inequalities in One Triangle (18:52), <i>day 1</i>	
Week 13, Day 3 5.2.1 Indirect Proof and Inequalities in One Triangle (18:52), <i>day 2</i>	
Week 13, Day 4 5.2.2 Inequalities in Two Triangles (11:15)	
Week <u>13. Day 5</u> 5.2.3 The Pythagorean Theorem (13:44)	

Week 14 5.2 Relationships in Triangles (Cont.) 🔷 Test 5.1 & 5.2

Assignments	Notes
Week 14. Day 1 5.2.4 Applying Special Right Triangles (13:27)	
Week 14, Day 2 5.2 Review Worksheet: Relationships in Triangles	
Week 14, Day 3 Quiz – 5.2	Score:
Week 14, Day 4 Practice Test – 5.1 & 5.2	
Week 14, Day 5 Test – 5.1 & 5.2	Score:

Week 15 6.1 Polygons and Parallelog

Assignments	Notes
Week <u>15. Day 1</u> 6.1.1 Properties and Attributes of Polygons (18:45), day 1	
Week <u>15. Day 2</u> 6.1.1 Properties and Attributes of Polygons (18:45), day 2	
Week <u>15, Day 3</u> 6.1.2 Properties of Parallelograms (17:16)	
Week <u>15. Day 4</u> 6.1.3 Conditions for Parallelograms (12:37)	
Week <u>15, Day 5</u> 6.1 Review Worksheet: Polygons and Parallelograms	

Week 16	6.1 Polygons and Parallelograms (Cont.)	6.2 Other Special Quadrilaterals

Assignments	Notes
Week 16, Day 1 Quiz – 6.1	Score:
Week 16, Day 2 6.2.1 Properties of Special Parallelograms (18:23)	
Week 16, Day 3 6.2.2 Conditions for Special Parallelograms (11:41)	
Week 16, Day 4 6.2.3 Properties of Kites and Trapezoids (17:21), <i>day 1</i>	
Week 16, Day 5 6.2.3 Properties of Kites and Trapezoids (17:21), <i>day 2</i>	

Week 17 6.2 Other Special Quadrilaterals (Cont.) 🔶 Test 6.1 & 6.2

Assignments	Notes
Week <u>17. Day 1</u> 6.2 Review Worksheet: Other Special Quadrilaterals	
Week 17, Day 2 Quiz – 6.2	Score:
Week 17, Day 3 Practice Test – 6.1 & 6.2	
Week 17, Day 4 Test - 6.1 & 6.2	Score:
<u>Week 17, Day 5</u> Practice Exam – Modules 1-17	

Week 18 Exam – Modules 1-17 🔶 7.1 Similarity Relationships

Assignments	Notes
Week 18, Day 1 Exam – Modules 1-17	Score:
Week 18, Day 2 7.1.1 Ratio and Proportion (11:51)	
Week 18, Day 3 7.1.2 Ratios in Similar Polygons (10:24)	
Week 18, Day 4 7.1.3 Triangle Similarity: AA, SSS, and SAS (22:52), <i>day 1</i>	
Week 18, Day 5 7.1.3 Triangle Similarity: AA, SSS, and SAS (22:52), <i>day 2</i>	

Week 19	7.1 Similarity Relationships (Cont.) <	7.2 Applying Similarity
---------	--	-------------------------

Assignments	Notes
Week <u>19, Day 1</u> 7.1 Review Worksheet: Similarity Relationships	
Week 19, Day 2 Quiz – 7.1	Score:
Week 19, Day 3 7.2.1 Applying Properties of Similar Triangles (10:57)	
Week 19, Day 4 7.2.2 Using Proportional Relationships (15:07)	
Week <u>19. Day 5</u> 7.2.3 Dilations and Similarity in the Coordinate Plane (15:42)	

Week 20 7.2 Applying Similarity (Cont.) 🔶 Test 7.1 & 7.2 🔶 8.1 Trigonometric Ratios

Assignments	Notes
<u>Week 20. Day 1</u> 7.2 Review Worksheet: Applying Similarity	
Week 20, Day 2 Quiz – 7.2	Score:
Week 20, Day 3 Practice Test – 7.1 & 7.2	
Week 20, Day 4 Test – 7.1 & 7.2	Score:
Week 20, Day 5 8.1.1 Similarity in Right Triangles (17:50)	

Week 21 8.1 Trigonometric Ratios (Cont.)

Assignments	Notes
Week 21. Day 1 8.1.2 Trigonometric Ratios (17:28), <i>day 1</i>	
Week 21, Day 2 8.1.2 Trigonometric Ratios (17:28), <i>day 2</i>	
Week 21, Day 3 8.1.3 Solving Right Triangles (15:28), <i>day 1</i>	
Week 21, Day 4 8.1.3 Solving Right Triangles (15:28), <i>day 2</i>	
Week 21, Day 5 8.1 Review Worksheet: Trigonometric Ratios	

Week 22 8.1 Trigonometric Ratios (Cont.)	8.2 Applying Trigonometric Ratios
--	-----------------------------------

Assignments	Notes
Week 22, Day 1 Quiz - 8.1	Score:
Week 22, Day 2 8.2.1 Angles of Elevation and Depression (16:34)	
Week 22, Day 3 8.2.2 Law of Sines and Law of Cosines (21:21), <i>day 1</i>	
Week 22, Day 4 8.2.2 Law of Sines and Law of Cosines (21:21), <i>day 2</i>	
<u>Week 22. Day 5</u> ■ 8.2.3 Vectors (24:55), <i>day 1</i>	

Week 23 8.2 Applying Trigonometric Ratios (Cont.) 🔷 Test – 8.1 & 8.2

Assignments	Notes
<u>Week 23, Day 1</u> 8.2.3 Vectors (24:55), <i>day 2</i>	
Week 23, Day 2 8.2 Review Worksheet: Applying Trigonometric Ratios	
Week 23, Day 3 Quiz – 8.2	Score:
Week 23, Day 4 Practice Test – 8.1 & 8.2	
Week 23, Day 5 Test – 8.1 & 8.2	Score:

Week 24	9.1 Developing Geometric Formulas

Assignments	Notes
Week 24. Day 1 9.1.1 Developing Formulas for Triangles and Quadrilaterals (24:45)	
Week 24. Day 2 9.1.2 Developing Formulas for Circles and Regular Polygons (17:20)	
<u>Week 24, Day 3</u> 9.1.3 Composite Figures (23:17) <i>, day 1</i>	
<u>Week 24, Day 4</u> 9.1.3 Composite Figures (23:17) <i>, day 2</i>	
Week 24, Day 5 9.1 Review Worksheet: Developing Geometric Formulas	

Week 25 9.1 Developing Geometric Formulas (Cont.) 🔷	9.2 Applying Geometric Formulas
---	---------------------------------

Assignments	Notes
Week 25, Day 1 Quiz – 9.1	Score:
Week 25, Day 2 9.2.1 Perimeter and Area in the Coordinate Plane (24:19)	
Week 25, Day 3 9.2.2 Effects of Changing Dimensions Proportionally (15:09)	
<u>Week 25, Day 4</u> 9.2.3 Geometric Probability (19:54), <i>day 1</i>	
<u>Week 25. Day 5</u> 9.2.3 Geometric Probability (19:54) <i>, day 2</i>	

Week 26 9.2 Applying Geometric Formulas (Cont.) 🔷 Test – 9.1 & 9.2 🔷 10.1

Three-Dimensional Figures

Assignments	Notes
Week 26, Day 1 9.2 Review Worksheet: Applying Geometric Formulas	
Week 26, Day 2 Quiz – 9.2	Score:
Week 26, Day 3 Practice Test – 9.1 & 9.2	
Week 26, Day 4 Test - 9.1 & 9.2	Score:
Week 26, Day 5 I 0.1.1 Solid Geometry	

Assignments	Notes
Week 27. Day 1 10.1.2 Representations of Three-Dimensional Figures (14:32)	
Week 27, Day 2 10.1.3 Formulas in Three Dimensions (17:22), day 1	
Week 27, Day 3 10.1.3 Formulas in Three Dimensions (17:22), day 2	
Week 27, Day 4 10.1 Review Worksheet: Three-Dimensional Figures	
Week 27. Day 5 Quiz – 10.1	Score:

Week 28 10.2 Surface Area and Volume

Assignments	Notes
Week 28, Day 1 10.2.1 Surface Area of Prisms and Cylinders (23:17), <i>day 1</i>	
Week 28. Day 2 10.2.1 Surface Area of Prisms and Cylinders (23:17), <i>dαy 2</i>	
Week 28, Day 3 10.2.2 Surface Area of Pyramids and Cones (25:10), <i>day 1</i>	
Week 28. Day 4 10.2.2 Surface Area of Pyramids and Cones (25:10), <i>day 2</i>	
Week <u>28, Day 5</u> Π 10.2.3 Volume of Prisms and Cylinders (21:21), <i>dαy</i> 1	

Week 29 10.2 Surface Area and Volume (Cont.)

Assignments	Notes
Week 29, Day 1 10.2.3 Volume of Prisms and Cylinders (21:21), <i>day 2</i>	
Week 29. Day 2 10.2.4 Volume of Pyramids and Cones (18:52), <i>day 1</i>	
<u>Week 29, Day 3</u> 10.2.4 Volume of Pyramids and Cones (18:52), <i>day 2</i>	
<u>Week 29, Day 4</u> 10.2.5 Spheres (22:40), <i>day 1</i>	
<u>Week 29, Day 5</u> 10.2.5 Spheres (22:40), <i>day 2</i>	

Week 30 10.2 Surface Area and Volume (Cont.) Test – 10.1 & 10.2 11.1 Lines and Arcs in Circles

Assignments	Notes
Week 30. Day 1 10.2 Review Worksheet: Surface Area and Volume	
Week 30, Day 2 Quiz – 10.2	Score:
Week 30, Day 3 Practice Test – 10.1 & 10.2	
Week 30, Day 4 Test – 10.1 & 10.2	Score:
Week 30, Day 5 11.1.1 Lines That Intersect Circles (15:08)	

Week 31 11.1 Lines and Arcs in Circles (Cont.)) 🔷 11.2 Angles and Segments in Circles
--	---

Assignments	Notes
Week <u>31, Day 1</u> 11.1.2 Arcs and Chords (15:22)	
Week 31, Day 2 11.1.3 Sector Area and Arc Length (14:21)	
Week 31, Day 3 11.1 Review Worksheet: Lines and Arcs in Circles	
Week 31, Day 4 Quiz – 11.1	Score:
<u>Week 31, Day 5</u> 11.2.1 Inscribed Angles (19:12), <i>day 1</i>	

Week 32 11.2 Angles and Segments in Circles (Cont.)

Assignments	Notes
<u>Week 32, Day 1</u> 11.2.1 Inscribed Angles (19:12), <i>dαy 2</i>	
Week 32, Day 2 11.2.2 Angle Relationships in Circles (15:23), day 1	
Week 32, Day 3 11.2.2 Angle Relationships in Circles (15:23), day 2	
Week 32. Day 4 11.2.3 Segment Relationships in Circles (11:22)	
Week 32. Day 5 11.2.4 Circles in the Coordinate Plane (15:41)	

Week 33 11.2 Angles and Segments in Circles (Cont.) Test 11.1 & 11.2 12.1 Congruence Transformations

Assignments	Notes
Week <u>33, Day 1</u> 11.2 Review Worksheet: Angles and Segments in Circles	
Week 33, Day 2 Quiz – 11.2	Score:
Week 33, Day 3 Practice Test – 11.1 & 11.2	
Week 33. Day 4 Test – 11.1 & 11.2	Score:
Week <u>33. Day 5</u> 1 2.1.1 Reflections (13:44), <i>day 1</i>	

Week 34	12.1 Congruence Transfo	ormations (Cont.)
---------	-------------------------	-------------------

Assignments	Notes
<u>Week 34, Day 1</u> 12.1.1 Reflections (13:44), <i>day 2</i>	
Week <u>34, Day 2</u> 1 2.1.2 Translations (9:01)	
Week 34, Day 3 12.1.3 Rotations (15:46)	
Week 34, Day 4 12.1.4 Compositions of Transformations (18:42)	
Week <u>34, Day 5</u> 1 2.1 Review Worksheet: Congruence Transformations	

Week 35 12.1 Congruence Transformations (Cont.) 🔷 12.2 Patterns

Assignments	Notes
Week 35, Day 1 Quiz – 12.1	Score:
Week <u>35, Day 2</u> 12.2.1 Symmetry (11:35)	
Week 35, Day 3 12.2.2 Tessellations (13:13)	
Week <u>35, Day 4</u> 12.2.3 Dilations (10:26)	
Week <u>35. Day 5</u> 12.2 Review Worksheet: Patterns	

Week 36 12.2 Patterns (Cont.) 🔷 Test – 12.1 & 12.2 🔷 Exam – Modules 19-35

Assignments	Notes
Week 36, Day 1 Quiz – 12.2	Score:
<u>Week 36, Day 2</u> Practice Test – 12.1 & 12.2	
Week 36, Day 3 Test – 12.1 & 12.2	Score:
<u>Week 36, Day 4</u> Practice Exam – Modules 19-35	
Week 36, Day 5 Exam – Modules 19-35	Score: