Day 1

Chapter 1: Introduction to Geometry

Lesson 1: Oil Spill: Geometry Modeling

Lesson 2: Inductive vs. Deductive Reasoning & Deductive Structure

Lesson 3: Some Definitions and Undefined Terms

Lessons 4: “Sitting Cats”

* Introduce compass construction and reasoning
* Circles, triangles and spatial reasoning
* Construct an equilateral triangle
* Develop notions of congruence using equilateral triangles

Lesson 5: Angle and Bisectors

* Review angle terminology
* Develop more constructions using spatial reasoning
* Develop more ideas about congruence based on rigid motions

Day 2

Chapter 2: Basic Concepts and Proofs

Lesson 5: Angle Relationships

Lesson 6: Conjectures and Conclusions

Lesson 7: Congruence by Rigid Motions (Patty Paper Explorations)

Lesson 8: Basic Properties of Congruence

Lesson 9: Reasoning Formally and Informally: Vertical Angles

Day 3

Chapter 3: Congruent Triangles

Lesson 10: Proving Triangles Congruent

* SSS, SAS, and ASA explorations with manipulatives
* Rigid motion congruence proof with patty paper

Lesson11: CPCTC

Lesson 12: Isosceles Triangles

Lesson 13: Right Triangles

Day 4

Chapter 4, 5.1 and 5.2

Lesson 14: Midpoints and Equidistance – revisiting bisectors

Lesson 15: Adventures in Reasoning Formally and Informally

Lesson 16: Parallel Lines and Slope

Lesson 17: Constructing Parallel Lines

Day 5

Chapter 5: Quadrilaterals

Lesson 18: Basic Properties of Quadrilaterals

Lesson 19: Exploring Parallelograms

Lesson 20: Exploring Special Quadrilaterals

* Rectangles
* Kites
* Rhombus
* Square
* Isosceles Trapezoid

Day 6

Chapter 7: Polygons, 8.1

Lesson 21: More about Triangles

* Proving the triangle sum theorem
* Triangle inequality exploration

Lesson 22: Polygon Angles: Interior and Exterior

Lesson 23: Regular Polygons

Lesson 24: Ratio and Proportion

Day 7

Chapter 8: Similarity

Lesson 25: Defining Similarity: Non-Rigid Motions

* Constructing dilations

Lesson 26: Triangle Similarity

Lesson 27: Congruence and Proportion in Similar Figures

Lesson 28: Area Proportions in Similar Figures

Day 8

Chapter 9: Right Triangles and Trigonometry

Lesson 29: Some Notes on Circles

Lesson 30: Pythagorean Theorem and the Distance Formula

Lesson 31: Special Right Triangles

Lesson 32: Right Triangle Trigonometry

Day 9

Chapter 10: Circles (Part 1)

Day 10

Chapter 10: Circles (Part 2)

Day 11

Chapter 11: Area

* Includes triangle area based on trigonometric ratios

Day 12

Chapter 12: Surface Area and Volume

Day 13