Geometry

Instructor: Kellie Hudson

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Short Bio: Dedicated Christian, involved in missions

Stay-at-home mom with two young boys

Bachelor’s Degree of Science

Master’s Degree in Educational Technology

Taught JH/HS Math for 7 years in public school system

Coached JH/HS Softball for 5 years

Taught at ACA for 4 years

Homework/Grading:

* Grading of all homework and tests will be expected to be done at home during the other days of the week. While I will not grade papers, I will make myself available via text or email if any questions or issues arise.

Materials needed:

* Math U See Geometry Textbook
  + Student kit
  + Instruction Pack (not required, but recommended by Math U See)
  + Notebook paper
  + Pencil
  + Calculator (optional)
  + https://store.demmelearning.com/math-u-see/secondary-math/geometry

Prerequisite:

* The student should have completed Math U See Algebra 1 course or something comparable.

Here is a rough view of the layout of our studies. We may combine the simpler lessons and extend the more difficult lessons into the next week if needed. We will adapt as needed for the students to understand and master the topic. I would also like to leave some extra space here and there for an activity or project, if it fits with our lesson. There are actually 33 weeks of instruction; we will adjust our lessons as we go.

Week 1: Points, Lines, Rays, and Line Segments

Week 2: Planes and Sets

Week 3: Angles

Week 4: Types of Angles

Week 5: Parallel and Perpendicular Lines

Week 6: Supplementary/Complementary Angles

Week 7: Transversals

Week 8: Perimeter; Interior Angles

Week 9: Area

Week 10: Constructing and Identifying Triangles

Week 11: Regular Polygons

Week 12: Geometry of a Circle, Sphere, and Ellipse

Week 13: Area of a Circle and Ellipse

Week 14: Volume of Rectangular Solid and Cylinder

Week 15: Volume: Pyramid, Cone, Prism, and Sphere

Week 16: Surface Area of Solids

Week 17: Radicals

Week 18: Pythagorean Theorem

Week 19: More Radicals

Week 20: Special Triangles: 45-45-90

Week 21: Special Triangles: 30-60-90

Week 22: Axioms, Postulates, and Theorems

Week 23: Corresponding Parts of Triangles

Week 24: Proving Triangles Congruent: SSS and SAS

Week 25: Proving Triangles Congruent: ASA and AAS

Week 26: Proving Right Triangles Congruent

Week 27: Proving Triangles Similar with AA

Week 28: Transformational Geometry

Week 29: Trigonometric Functions

Week 30: Reciprocal Trigonometric Functions

Week 31: Review or Make-up Day

Week 32: Review or Make-up Day