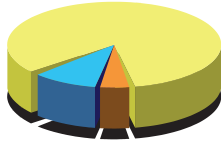


# Classes by Wendy Mahaney



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## Personal History

I trusted Christ as my Savior when I was 10 years old. The Lord has directed my life over these many years, and He has now opened to doors for me to teach with the co-op. I have taught seven years in a Christian school and have tutored homeschoolers for two years. I have an undergraduate degree in Secondary Education Math, and Sacred Music Piano from Tennessee Temple University, and have also completed my Graduate degree in Music Education at the University of Tennessee Chattanooga. I look forward to assisting you in the teaching of your children.

## Algebra 1

In this class, students will learn about integers; real numbers; solving equations and inequalities; relations; functions; graphs; systems of equations and inequalities; polynomials and factoring; radicals; quadratic equations and functions; and rational expressions and equations. Algebra and the Bible, practical applications of algebra, and probability and statistics are woven through each chapter.

### Supplies Needed:

2nd edition of the BJU Press Algebra 1 Student Text, by Kathy Pilger (ISBN: 978-1-59166-643-1).  
2" 3-ring binder with dividers with tabs  
Scientific calculator

**Prerequisite:** 8<sup>th</sup> grade math or pre-algebra

### Course Fees:

\$10 copy fee payable to tutor on 1st day of class

## Geometry

Students will learn about incidence geometry; subsets of lines, planes, and space; segments, angles, and measurement; proofs; congruence; triangles; quadrilaterals; circles; area; space; volume; symmetry, transformations, and similarity. Students will also be introduced to basic trigonometry. Each chapter emphasizes geometry and the Bible, analytic geometry, and real life uses for geometry.

### Required Supplies

3rd edition of the BJU Press Geometry Student Text, by Ron Tagliapietra (ISBN: 978-1-59166-347-8).

Scientific calculator  
2" 3-ring binder with dividers with tabs  
Protractor  
Ruler  
Compass

**Prerequisite:** successful completion of Algebra 1. Geometry is typically taken in 10th grade.

**Course Fee:** \$10 copy fee payable to tutor on 1st day of class

## Algebra 2

Students will build on their Algebra 1 and Geometry skills to learn more about operations; linear relations and equations; quadratic equations; polynomials; systems of equations and inequalities; radicals; complex numbers; rational expressions and equations; trigonometry, trig identities, and inverse trig functions; probabilities and statistics; and analytical geometry. Each chapter includes a biblical emphasis and a brief discussion of linear algebra, along with special sections discussing algebra throughout history and in foreign countries.

### Required Supplies

2nd edition of the BJU Press Algebra 2 Student Text, by Kathy Pilger (ISBN: 978-1-57924-385-2).  
Scientific calculator (Graphing Calculator can be used but not required)  
2" 3-ring binder with dividers with tabs

**Course Fees:** \$10 copy fee payable to tutor on 1<sup>st</sup> day of class

**Prerequisites:** Successful completion of Algebra 1 and Geometry. Algebra 2 is typically taken in 11th or 12th grade.