

## **SCHOOL MISSION STATEMENT**

Providence Academy

Providence Academy equips students to achieve academic excellence and spiritual maturity through a biblically-based, Christ-centered, classical education, so they will think and live in a manner which brings glory to God.

## **MATH DEPARTMENT PURPOSE STATEMENT**

The purpose of the Providence Academy mathematics department is to equip our students with the math and critical thinking skills needed to succeed both in higher education and in their callings so that they will be able to honor and glorify God in their work. The mathematics department understands that most philosophical views of mathematics are “man-centered,” but our philosophy of mathematics is God-centered, based on the Scriptures alone, for the axioms and procedures are stated in, illustrated by, and presumed by Scripture; and God’s authority extends over mathematics as well as other academic disciplines. Our students will be taught that mathematics is revealed by God in His Word and that the right use of mathematics glorifies God.

### **Math Department Capstone Objectives:**

1. Think in quantitative terms with well-developed mathematical reasoning
2. Retain proficiency and accuracy in mathematical computation
3. Display mathematical data with honesty, precision, and clarity
4. Observe and appreciate the mathematical order that exists in creation
5. Recognize that mathematics is the language through which creation speaks and that an understanding of that language reveals the goodness of His works and the attributes of His nature
6. Utilize developed mathematical skills in vocational service to man and for the glory of God

## **MATH DEPARTMENT GOALS**

The student will:

1. Relate the Bible to mathematics
2. Maintain arithmetic skills
3. Master measurement skills
4. Master number and set concepts
5. Develop understanding of number theory
6. Develop graphing knowledge and skills, including the use of a graphing calculator
7. Master ratio, proportion, percent and rate
8. Develop understanding of exponents and roots
9. Develop an understanding of probability and statistics
10. Develop algebraic and higher order skills for expressions
11. Develop algebraic and higher order skills in equations
12. Develop algebraic and higher order skills for functions
13. Develop understanding of trigonometry, logarithms, and antilogarithms

14. Develop geometric knowledge, skills and analysis
15. Develop understanding and application of differentiation, antidifferentiation, and series
16. Apply mathematics to real-life situations
17. Develop understanding and appreciation of the history of mathematics
18. Develop study skills as related to mathematics
19. Appreciate the value of mathematics to the Christian and daily life