Southwest Christian Math II
Spring Semester 2018

I. Southwest Christian's Mission Statement
To challenge students to grow in knowing, loving, and serving God and others.

II. Course Description
In the second semester of Math II, students will build on what was learned in the first semester of Math II and what was learned in Math I. Math II is an integrated math course which covers Algebra, Geometry, Probability, Trigonometry concepts. This course will prepare students to move forward to Math III.

III. Contact Information
Mrs. Jill Pulkrabek
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IV. Instructional/Assessment Philosophy
Understanding mathematics helps us to understand the world that God created. I believe that all students can learn math and that math skills are necessary in daily life.

It is beneficial to practice math skills daily and to build on what has been learned in previous math courses. For this reason, there will be daily homework assignments to allow students to practice the skills taught in class.

Students will have the opportunity to make corrections on their chapter tests to improve their test score and learn from their mistakes.

Please make sure to let me know if there is a math concept that you do not understand. I am available before and after school for students who need additional help outside of class time.

V. Course Standards/Goals

Skills and Knowledge:

Numbers and Operations: Students will understand and use concepts of numbers and their number system.

Algebra, Functions, and Patterns: Students will use algebraic concepts, functions, patterns, and relationship to solve problems.

<u>Geometry and Reasoning Proof</u>: Students will understand and apply geometric concepts and spatial relationships to solve problems in appropriate situations.

<u>Data Analysis, Statistics, and Probability</u>: Students will use data collection and analysis techniques, statistical methods, and probability to solve problems.

Value: Students will recognize that mathematics is a language and tool provided by God. Students will recognize God's characters of logic and order in our world. Students will see the aesthetics of mathematics as reflecting the mind of God as Creator.

VI. Course Texts, Readings, and Materials
Textbook:
Lynch, Chicha, and Eugene Olmstead. *Math Matters: An Integrated Approach: Book 2.* South-Western Educational Publishing, 1997.

Materials needed each day:
Textbook
Pencil with eraser
Pen for grading
Notebook
Calculator
Computer (some days)

VII. Assessment: Your grade will be based on homework, quizzes, tests, and participation.

Homework (30%): Students will have daily homework assignments to practice the concepts learned in class. Homework will typically be graded at the beginning of the class period. Late work will receive 50% credit.

Quizzes (20%): Quizzes will be taken periodically throughout the chapter to provide a check of concept comprehension.

Tests (40%): Tests will be taken at the end of each chapter. Students can make test corrections the next day. The original test and corrected test will be averaged together to get the chapter test grade.

Participation (10%): Students will receive two participation points per day: one point for completing the entire homework assignment (regardless of score) and one point for participating in class (taking notes, paying attention, etc.). If a student is absent from class (excused absence), he/she can receive those participation points by turning in the

previous homework assignment, taking notes on the missed section, and requesting the next homework assignment.

VIII. Policy:
You are expected to come to class on time, with your completed homework and required materials, ready to learn. Put away laptops when not needed for class. Cell phones are never needed and should be stored during class time. Be respectful and have a positive attitude.

Make sure to ask questions whenever you do not understand a problem or concept. I am typically available before and after school if you need additional help outside of class time.

All work must be your own. You may work together on homework assignments, but you cannot copy work from another student or other source. Quizzes and tests must be completed individually.

Chapter tests may be corrected the next day to improve your test score. The original test and corrected test will be averaged together to get the chapter test grade. Quiz scores are final.

Late homework will receive 50% credit. You may also redo a very low homework assignment for 50% credit. You must show your work to receive any credit.

IX. Distribution of Grading Components
Homework: 30%
Quizzes: 20%
Tests: 40%
Participation: 10%

X. Grading Scale
A   100-96
A-   95-92
B+   91-88
B   87-85
B-   84-82
C+   81-79
C   78-75
C-   74-71
D+   70-67
D   66-64

D-   63-60
F   59 or below

XI. Course Schedule/Topics Covered (tentative):
Chapter 7: Polynomials
Chapter 8: Graphing Functions
Chapter 9: Slope and Systems
Chapter 10: Ratio, Proportion, and Variation
Chapter 11: Transformations
Chapter 12: A Closer Look at Probability
Chapter 13: Logic and Sets
Chapter 14: Trigonometry