

Course Syllabus: Applied Mathematical Concepts

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## **COURSE TOPICS**

- Financial Mathematics
- Linear Programming
- Basic Probability and Statistics
- Counting Techniques
- Problem Solving Techniques
- Logic and Analysis of Arguments
- Sets

## **CLASSROOM EXPECTATIONS**

1. Be Respectful
2. Be On Time
3. Be Understanding
4. Be Prepared
5. Be Diligent

Students will be expected to follow all school rules and expectations. Refer to the guidelines in the school policy manual.

## **RECOMMENDED SUPPLIES**

- 3-ring notebook and loose-leaf paper
- Composition Notebook for bell work/notes (optional)
- Highlighters (highly recommend)
- Pencils
- Calculators

TI-83 Plus, TI-84 Plus, or TI Inspire graphing calculators are strongly recommended for this class. Calculators will be provided only during class time.

## **ACADEMIC SUPPORT**

All students at South Gibson County High School are expected to complete, to an acceptable level of mastery, all assignments that support the learning of the state standards. South Gibson County strives to be a training ground for college and career readiness. Therefore, all students are expected to

complete all assignments that support the learning of the state standards and complete those assignments to an acceptable level of mastery and in a timely manner. It is the student's responsibility to attend Intermission for remediation of a skill or enrichment.

SGC offers a variety of support that fit many different learning styles. Some of these are Intermission during the school day, Discovery Education, ACT Prep, and before and after school tutoring on Wednesdays and Thursdays in our PASS program.

## **GRADING SYSTEM**

### Tests (Formal):

Tests will be given at the end of each unit or when appropriate. A midterm will be given at the end of the first nine weeks and will count as 10% of the mid-term grade. A final test will be given at the end of the semester. The final exam will be 10% of the grade. All students will also take the Geometry TNReady at the end of the semester which will count as a formal grade. No test grades will be dropped. Tests are 80% of each student's grade.

### Class work/Homework/Quizzes (Informal):

Students will have homework/class work on a regular basis. Quizzes will be given 1-2 times a week. Assignments and quizzes are 20% of each student's grade.

## **HOMEWORK POLICY**

- **Late:** On homework/informal assignments, students have 5 days to make-up any missed assignments. After 5 days a grade of zero will be recorded and the student will not be able to make up the missed work.
- **Unsatisfactory Level of Performance:** On informal assignments, failing grades will stay in the grade book. These are 20% of the grade and will not be made up. Progressive grading applies to all testing. These formal grades will be made up through the cumulative testing. After ample opportunities to make up grades on tests, extra tutoring, and after parent contact and administration approval, formal grades may remain failing. Project grades will stand as is.

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## PROGRESSIVE GRADING

The goal of the teacher is to ensure all students master the standards and obtain a rich knowledge of mathematics. Progressive grading is part of this classroom to ensure these things occur. Progressive grading is used to allow students to be able to “change their grade” throughout the semester. Students must maintain knowledge of all content covered to be successful on classroom tests. Therefore, as we go throughout the semester, each test will contain new material and parts of older content. All students are required to complete all tests. If a student is unhappy with a previous test grade, and a new test contains material from that chapter, a student’s grade on that section of the new test can replace the old test. Because of the cumulative nature of all tests in this class, students will have multiple opportunities to improve their grades. Each student’s grade will stand until the material is tested again on another test in the future. Material covered on each test will be announced so students can study accordingly.

## CELL PHONE POLICY

Possession of a cell phone is not a disciplinary issue; however, the inappropriate or irresponsible use of a cell phone that results in a school disruption is a student choice that will lead to disciplinary consequences. During class cell phones must be put away in the designated area of the classroom.

My consequences are:

- **First offense:** a verbal warning/reminder
- **Second offense:** teacher takes up cell phone and holds it until the end of class; parents will be notified
- **Third offense:** device gets taken away and given to the school administrators.

There will be times in class when cell phones will be used for educational purposes. The teacher will notify the students when they are allowed to get out their cell phones. During this time students will only be allowed to do what is instructed by the teacher, and will not be allowed to go to any other website.

## ATTENDANCE

Students, if you must miss for any reason it is **your** responsibility to find out what assignments you missed! Also, because SGCHS is on a block schedule, one missed block equates to two missed class periods.

## HELPFUL RESOURCES

The following websites are great resources for math and science topics. I highly recommend Khan Academy for review of topics and especially if your student misses a class. These are lecture-based with very clear examples. Khan Academy can also be loaded on to a smart phone or iPod Touch. These can be found at the iTunes store under education.

Khanacademy.org

CK12.org

Student Name \_\_\_\_\_

**After reviewing this syllabus, please sign and return this section to Mrs. Harris.**

Parent's Printed Name

\_\_\_\_\_

Email Address (*please print carefully/clearly*):

\_\_\_\_\_

Alternate Phone (home/ work phone):

\_\_\_\_\_

I have read and understand the procedures, expectations, and information in the Applied Mathematics Concepts Geometry syllabus.

\_\_\_\_\_

date

student signature

parent signature

### Course Calendar

Time Period	Major Topics Covered	Standards Covered	Major Projects
Q1 12-15 days	Problem Solving and Linear Programing	AM.A.PS.A.1 AM.A.LP.A. 1-4	Using Programming in the Real World
Q1 12-15 days	Financial Mathematics	AM.N.NQ.A. 1-10	Mortgages and Annuities
Q1 15-18 days Mid-Term:	Organizing and Interpreting Data	AM.D.ID.A. 1-7	

Oct. 5 & 6			
Q2 12-15 days	Counting and Combinatorial Reasoning	AM.D.CR.A. 1-10	
Q2 15-18 days	Normal Distribution and Confidence Intervals	AM.D.ND.A AM.D.CI.A	
Q2 12-15 days	Logic and Boolean Algebra	AM.A.LB.A AM. A.LB.B	

\* Specific information, directions, and rubrics for projects will be posted closer to time of project.

Upon request, parents/guardians shall have the ability to inspect the following items: instructional materials; teaching materials; teaching aids; handouts; and tests that are developed by and graded by their child's teacher. Parents wishing to inspect such materials should contact the building level principal in writing.