DeKalb Co. High School
Mathematics Department
Algebra 1A Syllabus
2016-2017

Instructor:
Mrs. Jeanine Cantrell

Course Outcome:

- Algebra 1 places an emphasis on the systematic development of the language through which most of mathematics is communicated. The content taught provides the mathematical understanding to operate with concepts at an abstract level then apply them in a process that fosters generalizations and insights beyond the original content. Therefore, it is a very important course to build the foundation for future math classes in high school.
- The State of Tennessee Mathematics Standards can be found at the following web address: www.tennessee.gov

Instruction: Algebra 1A Prep.

Unit 1: Working with Integers
Unit 2: Combining Like Terms and Equations
Unit 3: Multi-Step Equations
Unit 4: Graphing

Algebra 1A

Module 1: Linear Equations and Inequalities
Module 2: Relationships and Functions
Module 3: Linear Functions
Module 4: Exponential Functions
Module 5: Polynomial Expressions and Functions

- **Materials Needed:**
  1 Notebook paper to be replaced throughout the year.
  2 Pencils (numerous) to be replaced throughout the year.
  3 1-inch (or larger) Binder
  4 5-tab Dividers
  5 Calculator Recommendations: A TI-83+, TI-84, or TI Inspire graphing calculator. Students will be given a calculator to use while at school, but may not take it out of the classroom.
- **Resources**
  Textbooks: Holt McDougal Algebra 1
  Supplemental Materials

Assessment:

- **Grading:**

DeKalb County Grading Scale

100-93	A
92-85	B
84-75	C
74-70	D
69-0	F

Grades will be calculated using the following:

- Class Assignments = 80%
- Assessments = 20%

Report Cards:

Each student will receive a progress report every 4 ½ weeks for the entire school year. Students' grades will be cumulative for the entire year.

Explanation of Formative Assessment and Summative Assessment:

- Class Work

  Class work will consist of, but not be limited to activities implementing the State Standards. Class work will be reviewed/graded during class or at the completion of the assignment. The assignment will be graded based on correctness and completion per instructions.

- Make-up Work/Late work

  Each student is responsible for making up any missed assignment, quiz, and/or test. The student is responsible for getting their missing work from the Absent Wall upon returning to school. The student must schedule a time for any make-ups the day he/she returns to school. If the student does not make up the work missed within the allotted time frame (5 days for each day missed), then he/she will receive a zero on the missed work.

- Benchmarks

  Each student will be assessed every 9 weeks on the state standards covered up to that point. Students are not allowed to bring the benchmarks home. All exams will be discussed in class and the student's grade will be entered into skyward.

Summative Assessment

- Quizzes

  Quizzes are given during each unit; usually every Friday. Some quizzes will be pop quizzes and some will be announced. Quizzes allow the student to practice skills prior to a module test. Concepts taught in previous modules may be included on current module quiz.

- Module Tests

  At the end of each module a test will be given. Students are not allowed to bring the test home. All tests will be discussed in class and the student's grade will be entered into skyward.

- End of Course Test (EOC)

  An End of Course Test (EOC) will not be given at the end of Algebra 1A. A Final Test will be administered. The Final Test will count 25% of the student's final grade in Algebra 1A.

Skyward Posting Policy

- The most effective way to communicate with students and parents is through skyward. In order to give timely feedback, I will update grades at least once a week. Students and parents should be checking Skyward on an regular basis. Please do not wait until the end of a grading period to check a student's grade. I would hate for there to be a surprise regarding the success of your child in Algebra 1A.

General Expectations

Students:

- Work must be completed in pencil **ONLY.**
- Students are to **SHOW ALL WORK**. If students write only the answer, he/she will receive no credit on that assignment.
- Complete assignments on time. No late work will be accepted unless the student was absent the day it was assigned.
- Student are to be prepared for class – bring binder, and pencil; Algebra 1 books will remain in the classroom. (Students may check a text book out to bring home as needed. Book must be returned the following day and checked back in). Students will not be allowed to go to their locker during class. Each student's math binder must be kept neat and orderly and brought to class each day. Students are subject to a binder check without notice.
- Students may periodically be allowed to use math notebook for reference on a test or quiz, so it is important to take good notes and complete all bell ringers.
- Absent students are expected to check the absent wall for any missed assignments.

Teacher:

Communication Strategy

- E-mail: [redacted]
- School Phone Number: 615-597-4751
- Google Classroom will be updated daily with assignments and announcements. Each student should be checking Google Classroom daily. When absent, the student is expected to obtain his/her assignment from the Absent Wall and/or Google Classroom.
- Extra Help- DeKalb Co. High School offers several opportunities for after-school tutoring during the year.

DeKalb Co. High School
Mathematics Department
Algebra I Syllabus
2016-2017

Instructor:
Mrs. Charlotte Blaylock

Course Outcome:

- Algebra I places an emphasis on the systematic development of the language through which most of mathematics is communicated. The content taught provides the mathematical understanding to operate with concepts at an abstract level then apply them in a process that fosters generalizations and insights beyond the original content. Therefore, it is a very important course to build the foundation for future math classes in high school. The Algebra Curriculum is designed to give students the foundation necessary for completing higher level mathematics courses such as AP Calculus and AP.
- The State of Tennessee Mathematics Standards can be found at the following web address: http://www.tn.gov/education/topic/academic-standards

Instruction:

Modules
Unit 1: Linear Equations and Inequalities
Unit 2: Relationships and Functions
Unit 3: Linear Functions
Unit 4: Exponential Functions
Unit 5: Polynomial Expressions and Functions
Unit 6: Quadratic Functions
Unit 7: Quadratic Equations
Unit 8: System of Linear Equations and Inequalities
Unit 9: Probability and Statistics
Unit 10: Rational Expressions and Function
Unit 11: Radical Expressions and Function

- **Materials needed**
  1. Notebook paper to be replaced throughout the year.
  2. Pencils (numerous) to be replaced throughout the year.
  3. 1-inch (or larger) Binder
  4. 5-tab Dividers
  5. Graph Paper
  6. Colored Pens

7. Dry Erase Maker
8. Calculator Recommendations: ATI-84 graphing calculator. Students will be given a calculator to use while at school, but may not take it out of the classroom.

- Resources
  - School-based: textbook and supplemental workbooks, technology, film clips/audiovisuals (G or PG rating), etc.
  - Textbooks:

Assessment:

- **Grading**

DeKalb County Grading Scale

100-93	A
92-85	B
84-75	C
74-70	D
69-0	F

  - **Grades will be calculated using the following:**

Tests: 50%
Quizzes: 30%
Homework/Other Assignments : 20%

The State of Tennessee End of Course Test will count 25% of the student's final grade in Algebra. Upon successful completion of Algebra I, each student will earn one high school math credit. The student will still need to earn three additional math credits in high school to meet the state standards for graduation one per year.

- Report Cards

Each student will receive a progress report every 4 ½ weeks for the entire school year. Students' grades will be cumulative for the semester.

Explanation of Formative Assessment and Summative Assessment:

- **Formative Assessment**
  - **Homework**

Homework will be given on most nights. Homework reinforces the material taught in class. Each homework assignment will be reviewed/graded at the beginning of class the following day. The assignment will be graded based on correctness and completion per instructions. **Late work will not be accepted unless due to an absent.**

  - **Class work**

Class work will consist of, but not be limited to, discovery activities implementing the State Standards. Class work will be reviewed/graded during class or at the completion of the assignment. The assignment will be graded based on correctness and completion per instructions.

  - **Make-up work for absents**

Each student is responsible for making up any missed assignment, quiz, and/or test. The student is responsible for getting their missing work from the teacher upon returning to school. The student must schedule a time for any make-ups the day he/she returns to

school. If the student does not make up the work missed within the allotted time frame (3 days plus one for each day absent), then he/she will receive a zero on the missed work.

- **Benchmarks**

  Each student will be assessed every 9 weeks on the state standards covered up to that point. Students are not allowed to bring the benchmarks home. All exams will be discussed in class and the student's grade will be entered into skyward.

- **Summative Assessment**

  - **Quizzes**

    Quizzes are given during each unit; usually every Friday. Some quizzes will be pop quizzes and some will be announced. Quizzes allow the student to practice skills prior to a unit test.

  - **Unit Tests**

    At the end of each unit a test will be given. Students are not allowed to bring the test home. All tests will be discussed in class and the student's grade will be entered into skyward.

  - **End of Course Test (EOC)**

    The State of Tennessee End Of Course Test will be administered in May of 2017. The EOC will count 25% of the student's final grade in Algebra I.

Parent Portal Posting Policy

- The most effective way to communicate with students and parents is through Skyward. In order to give timely feedback, I will update grades at least once a week. Students and parents should be checking on a regular basis. Please do not wait until the end of a grading period to check a student's grade. I would hate for there to be a surprise regarding the success of your child in Algebra I.

General Expectations

- Students
  - Work must be completed in pencil ONLY.
  - Students are to SHOW ALL WORK. If students write only the answer, he/she will receive no credit on that assignment.
  - Complete assignments on time. No late work will be accepted unless the student was absent the day it was assigned.
  - Students are to be prepared for class—bring math book, binder, and pencil. Students will not be allowed to go to their locker during class. Each student's math binder must be kept neat and orderly and brought to class each day. Students are subject to a binder check without notice.
  - Absent students are expected to check with the teacher for any missed assignments.

- Teacher
  - E-mail: charlotteblaylock@dekalbschools.net

This is the best way to contact me.

- School Phone number: 615-597-4094
  Please allow at least 1 full day to 1 ½ days to respond.

- Google Classroom will be updated daily with homework and announcements. Each student should be checking Google Classroom daily. When absent, the student is expected to obtain his/her homework from the teacher and/or Google Classroom.

- Extra Help
  - DeKalb Co. High School offers several opportunities for after-school tutoring during the year.
- Academic Dishonesty:

  The math department expects each student to do his own woork. Cheating is not allowed, tolerated, or accepted. If a stuudent is found cheating, a zero will be given for that assignment. Parents will be notifed. Cheating is but not limited to copying homework, test, quiz, or giving answers in any way.

DeKalb Co. High School
Mathematics Department
Honors Algebra I Syllabus
2016-2017

Instructor:
Mrs. Charlotte Blaylock

Course Outcome:

- Algebra I places an emphasis on the systematic development of the language through which most of mathematics is communicated. The content taught provides the mathematical understanding to operate with concepts at an abstract level then apply them in a process that fosters generalizations and insights beyond the original content. Therefore, it is a very important course to build the foundation for future math classes in high school. The Algebra Curriculum is designed to give students the foundation necessary for completing higher level mathematics courses such as AP Calculus and AP.
- The State of Tennessee Mathematics Standards can be found at the following web address: http://www.tn.gov/education/topic/academic-standards

Instruction:

Modules
Unit 1: Linear Equations and Inequalities
Unit 2: Relationships and Functions
Unit 3: Linear Functions
Unit 4: Exponential Functions
Unit 5: Polynomial Expressions and Functions
Unit 6: Quadratic Functions
Unit 7: Quadratic Equations
Unit 8: System of Linear Equations and Inequalities
Unit 9: Probability and Statistics
Unit 10: Rational Expressions and Function
Unit 11: Radical Expressions and Function

- **Materials needed**
  1. Notebook paper to be replaced throughout the year.
  2. Pencils (numerous) to be replaced throughout the year.
  3. 1-inch (or larger) Binder
  4. 5-tab Dividers
  5. Graph Paper
  6. Colored Pens

7. Dry Erase Maker
8. Calculator Recommendations: ATI-84 graphing calculator. Students will be given a calculator to use while at school, but may not take it out of the classroom.

- Resources
  - School-based: textbook and supplemental workbooks, technology, film clips/audiovisuals (G or PG rating), etc.
  - Textbooks:

Assessment:

- **Grading**

DeKalb County Grading Scale

100-93	A
92-85	B
84-75	C
74-70	D
69-0	F

  - **Grades will be calculated using the following:**

Tests: 50%
Quizzes: 30%
Homework/Other Assignments : 20%

The State of Tennessee End of Course Test will count 25% of the student's final grade in Algebra. Upon successful completion of Algebra I, each student will earn one high school math credit. The student will still need to earn three additional math credits in high school to meet the state standards for graduation one per year.

- Report Cards

Each student will receive a progress report every 4 ½ weeks for the entire school year. Students' grades will be cumulative for the semester.

Explanation of Formative Assessment and Summative Assessment:

- **Formative Assessment**
  - **Homework**

Homework will be given on most nights. Homework reinforces the material taught in class. Each homework assignment will be reviewed/graded at the beginning of class the following day. The assignment will be graded based on correctness and completion per instructions. **Late work will not be accepted unless due to an absent.**

  - **Class work**

Class work will consist of, but not be limited to, discovery activities implementing the State Standards. Class work will be reviewed/graded during class or at the completion of the assignment. The assignment will be graded based on correctness and completion per instructions.

  - **Make-up work for absents**

Each student is responsible for making up any missed assignment, quiz, and/or test. The student is responsible for getting their missing work from the teacher upon returning to school. The student must schedule a time for any make-ups the day he/she returns to

school. If the student does not make up the work missed within the allotted time frame (3 days plus one for each day absent), then he/she will receive a zero on the missed work.

- **Benchmarks**

  Each student will be assessed every 9 weeks on the state standards covered up to that point. Students are not allowed to bring the benchmarks home. All exams will be discussed in class and the student's grade will be entered into skyward.

- **Projects**

  Throughout the school year we will assign an occasional project to emphasize the skills that have been presented in class. A project description and rubric will be given to each student at the beginning of the project.

- **Summative Assessment**
  - **Quizzes**

    Quizzes are given during each unit; usually every Friday. Some quizzes will be pop quizzes and some will be announced. Quizzes allow the student to practice skills prior to a unit test.

  - **Unit Tests**

    At the end of each unit a test will be given. Students are not allowed to bring the test home. All tests will be discussed in class and the student's grade will be entered into skyward.

  - **End of Course Test (EOC)**

    The State of Tennessee End Of Course Test will be administered in May of 2017. The EOC will count 25% of the student's final grade in Algebra I.

Parent Portal Posting Policy

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General Expectations

- Students
  - Work must be completed in pencil ONLY.
  - Students are to SHOW ALL WORK. If students write only the answer, he/she will receive no credit on that assignment.
  - Complete assignments on time. No late work will be accepted unless the student was absent the day it was assigned.
  - Students are to be prepared for class—bring math book, binder, and pencil. Students will not be allowed to go to their locker during class. Each student's math binder must be kept neat and orderly and brought to class each day. Students are subject to a binder check without notice.
  - Absent students are expected to check with the teacher for any missed assignments.

- Teacher
  - E-mail: charlotteblaylock@dekalbschools.net
    This is the best way to contact me.

- School Phone number: 615-597-4094
  Please allow at least 1 full day to 1 ½ days to respond.

- Google Classroom will be updated daily with homework and announcements. Each student should be checking Google Classroom daily. When absent, the student is expected to obtain his/her homework from the teacher and/or Google Classroom.

- Extra Help
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DeKalb Co. High School
Mathematics Department
Algebra I Syllabus
2016-2017

Instructor:
Mrs. Foutch

Course Outcome:

- Algebra I places an emphasis on the systematic development of the language through which most of mathematics is communicated. The content taught provides the mathematical understanding to operate with concepts at an abstract level then apply them in a process that fosters generalizations and insights beyond the original content. Therefore, it is a very important course to build the foundation for future math classes in high school. The Algebra Curriculum is designed to give students the foundation necessary for completing higher level mathematics courses such as Geometry, Algebra II and Calculus.

- The State of Tennessee Mathematics Standards can be found at the following web address: http://www.tn.gov/education/topic/academic-standards

Instruction:

Modules
Module 1: Linear Equations and Inequalities
Module 2: Relationships and Functions
Module 3: Linear Functions
Module 4: Exponential Functions
Module 5: Polynomial Expressions and Functions
Module 6: Quadratic Functions
Module 7: Quadratic Equations
Module 8: System of Linear Equations and Inequalities
Module 9: Probability and Statistics
Radical Expressions and Functions*
Rational Expressions and Functions*

*Material covered in Algebra II. We may briefly cover these topics after testing.

- Materials needed

  1. Notebook paper to be replaced throughout the year
  2. Pencils (numerous) to be replaced throughout the year
  3. 1-inch (or larger) Binder
  4. 5-tab Dividers
  5. Graph Paper
  6. Colored Pens
  7. Calculator Recommendations: A TI-83+, TI-84, or TI-Inspire graphing calculator. Students will be given a calculator to use while at school, but may not take it out of the classroom.

- Resources

  - School-based: textbook and supplemental workbooks, technology, film clips/ audiovisuals (G or PG rating), etc.

Assessment:

- Grading

  DeKalb County Grading Scale

100-93	A
92-85	B
84-75	C
74-70	D
69-0	F

  - Grades will be calculated using the following:

    Formative Assessment = 40%

    Summative Assessment = 60%

    For a total grade of 100%

    The State of Tennessee End of Course Test will count 25% of the student's final grade in Algebra. Upon successful completion of Algebra I, each student will earn one high school math credit. The student will still need to earn three additional math credits in high school to meet the state standards for graduation.

- Report Cards

  Each student will receive a progress report every 4 ½ weeks for the entire school year.

Explanation of Formative Assessment and Summative Assessment:

- **Formative Assessment**
  - Homework

    Homework will be given on most nights. Homework reinforces the material taught in class. Each homework assignment may be reviewed/graded at the beginning of class the following day. The assignment will be graded based on correctness and completion per instructions.

  - Class work

    Class work will consist of, but not be limited to, discovery activities implementing the State Standards. Class work will be reviewed/graded during class or at the completion of the assignment. The assignment will be graded based on correctness and completion per instructions.

  - Make-up work/Late work

    Each student is responsible for making up any missed assignment, quiz, and/or test. The student is responsible for getting their missing work from the Absent Wall or Google Classroom upon returning to school. The student must schedule a time for any make-ups the day he/she returns to school. If the student does not make up the work missed within the allotted time frame (5 days for each day missed), then he/she will receive a zero on the missed work.

  - Benchmarks

    Each student will be assessed every 9 weeks on the state standards covered up to that point. Students are not allowed to bring the benchmarks home. All exams will be discussed in class and the student's grade will be entered into Skyward.

  - Projects

    Throughout the school year I may assign an occasional project to emphasize the skills that have been presented in class. A project description and rubric will be given to each student at the beginning of the project.

- **Summative Assessment**
  - Quizzes

    Quizzes are given during each unit; usually every Friday. Each quiz will be announced at least one day prior. Quizzes allow the student to practice skills prior to a module test.

- Module Tests

  At the end of each module a test will be given. Students are not allowed to bring the test home. All tests will be discussed in class and the student's grade will be entered into Skyward.

- End of Course Test (EOC)

  The State of Tennessee End Of Course Test will be administered at the end of the year. Since Questar, our new state testing coordinator, was just recently announced, more information will be coming later in the year about testing. The EOC will count 25% of the student's final grade in Algebra I.

Skyward Posting & Google Classroom

- The most effective way to communicate with students and parents is through Skyward. In order to give timely feedback, I will update grades at least once a week. Students and parents should check Skyward on a regular basis. Please do not wait until the end of a grading period to check a student's grade. I would hate for there to be a surprise regarding the success of your child in Algebra I.
- Your student will be a member of Google Classroom for his/her Algebra I class. Google Classroom will be updated daily with homework and announcements. Each student should be checking Google Classroom regularly. When absent, the student is expected to obtain his/her homework from the Absent Wall and/or Google Classroom.

General Expectations

- Students
  - Work must be completed in pencil ONLY.
  - Students are to SHOW ALL WORK. If students write only the answer, he/she will receive no credit on that assignment.
  - Complete assignments on time. No late work will be accepted unless the student was absent the day it was assigned.
  - Students are to be prepared for class—bring math book, binder, and pencil. Students will not be allowed to go to their locker during class. Each student's math binder must be kept neat and orderly and brought to class each day. Students are subject to a binder check without notice.
  - Absent students are expected to check the absent wall or Google Classroom for any missed assignments.

- Teacher Information
  - E-mail: laceyfoutch@dekalbschools.net (This is the best way to contact me.)
  - School Phone number: 615-597-2246 Please allow at least 1 full day to 1 ½ days to respond.

DeKalb Co. High School
Algebra I Syllabus
2016-2017

Instructor:
Ms. Gentry

Course Outcome:

- Algebra I places an emphasis on the systematic development of the language through which most of mathematics is communicated. The content taught provides the mathematical understanding to operate with concepts at a abstract level then apply them in a process that fosters generalizations and insights beyond the original content. Therefore, it is a very important course to build the foundation for future math classes in high school. The Algebra Curriculum is designed to give students the foundation necessary for completing higher level mathematics courses such as Geometry, Algebra II and Calculus.

- The State of Tennessee Mathematics Standards can be found at the following web address: http://www.tn.gov/education/topic/academic-standards

Instruction:

Modules
Unit 1: Linear Equations and Inequalities
Unit: 2: Relationships and Functions
Unit 3: Linear Functions
Unit 4: Exponential Functions
Unit 5: Polynomial Expressions and Functions
Unit 6: Quadratic Functions
Unit 7: Quadratic Equations
Unit 8: System of Linear Equations and Inequalities
Unit 9: Probability and Statistics
Unit 10: Pythagorean Theorem
Radical Expressions and Functions*
Rational Expressions and Functions*

*Material covered in Algebra II. We may briefly cover these topics after testing.

- Materials needed

  1. Notebook paper to be replaced throughout the year
  2. Pencils (numerous) to be replaced throughout the year
  3. 1-inch (or larger) Binder
  4. 5-tab Dividers
  5. Graph Paper
  6. Colored Pens
  7. Calculator Recommendations: A TI-83+, TI-84, or TI-Inspire graphing calculator. Students will be given a calculator to use while at school, but may not take it out of the classroom.

- Resources: textbook and supplemental workbooks, technology, film clips/audiovisuals

Assessment:

- Grading

  DeKalb County Grading Scale

100-93	A
92-85	B
84-75	C
74-70	D
69-0	F

  - Grades will be calculated using the following:

    Classwork, participation, homework, binder = 40%

    Quizzes, Unit Tests, Benchmarks =60%

    For a total grade of =100%

    The State of Tennessee End of Course Test will count 25% of the student's final grade in Algebra. Upon successful completion of Algebra I, each student will earn one high school math credit.

- Report Cards

  Each student will receive a progress report every 4 ½ weeks for the entire school year.

  Students receive report cards each 9 weeks.

- Homework

  Homework will be given on most nights. Homework reinforces the material taught in class. Each homework assignment may be reviewed/graded at the beginning of class the following day. The assignment will be graded based on correctness and completion per instructions.

- Class work

  Class work will consist of, but not be limited to, discovery activities implementing the State Standards. Class work will be reviewed/graded during class or at the completion of the assignment. The assignment will be graded based on correctness and completion per instructions.

- Make-up work/Late work

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- Benchmarks

  Each student will be assessed every 9 weeks on the state standards covered up to that point. Students are not allowed to bring the benchmarks home. All exams will be discussed in class and the student's grade will be entered into Skyward.

- Quizzes

  Quizzes are given during each unit; usually every Friday. Each quiz will be announced at least one day prior. Quizzes allow the student to practice skills prior to a module test.

- Unit Tests

  At the end of each Unit a test will be given. Students are not allowed to bring the test home. All tests will be discussed in class and the student's grade will be entered into Skyward.

- End of Course Test (EOC)

  The State of Tennessee End Of Course Test will be administered at the end of the year. Since Questar, our new state testing coordinator, was just recently announced, more information will be coming later in the year about testing. The EOC will count 25% of the student's final grade in Algebra I.

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General Expectations

- Students
    - Work must be completed in pencil ONLY.
    - Students are to SHOW ALL WORK. If students write only the answer, he/she will receive no credit on that assignment.
    - Complete assignments on time. No late work will be accepted unless the student was absent the day it was assigned.
    - Students are to be prepared for class—bring math book, binder, and pencil. Students will not be allowed to go to their locker during class. Each student's math binder must be kept neat and orderly and brought to class each day. Students are subject to a binder check without notice.
    - Absent students are expected to check or Google Classroom for any missed assignments.

- Teacher Information
    - E-mail: deborahgentry@dekalbschools.net (This is the best way to contact me.)
    - School Phone number: 615-597-2246 Please allow at least 1 full day to 1 ½ days to respond.

PLEASE RETURN THE ATTACHED PAGE
KEEP THE SYLLABUS

DeKalb Co. High School
Mathematics Department
Honors Algebra I Syllabus
2016-2017

Instructor:
Mrs. Foutch

Course Outcome:

- Algebra I places an emphasis on the systematic development of the language through which most of mathematics is communicated. The content taught provides the mathematical understanding to operate with concepts at an abstract level then apply them in a process that fosters generalizations and insights beyond the original content. Therefore, it is a very important course to build the foundation for future math classes in high school. The Algebra Curriculum is designed to give students the foundation necessary for completing higher level mathematics courses such as Geometry, Algebra II and Calculus.

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Radical Expressions and Functions*
Rational Expressions and Functions*

*Material covered in Algebra II. We may briefly cover these topics after testing.

- Materials needed

  1. Notebook paper to be replaced throughout the year
  2. Pencils (numerous) to be replaced throughout the year
  3. 1-inch (or larger) Binder
  4. 5-tab Dividers
  5. Graph Paper
  6. Colored Pens
  7. Calculator Recommendations: A TI-83+, TI-84, or TI-Inspire graphing calculator. Students will be given a calculator to use while at school, but may not take it out of the classroom.

- Resources

  - School-based: textbook and supplemental workbooks, technology, film clips/ audiovisuals (G or PG rating), etc.

Assessment:

- Grading

  DeKalb County Grading Scale

100-93	A
92-85	B
84-75	C
74-70	D
69-0	F

  - Grades will be calculated using the following:

    Formative Assessment = 40%

    Summative Assessment = 60%

    For a total grade of 100%

    The State of Tennessee End of Course Test will count 25% of the student's final grade in Algebra. Upon successful completion of Algebra I, each student will earn one high school math credit. The student will still need to earn three additional math credits in high school to meet the state standards for graduation.

- Report Cards

  Each student will receive a progress report every 4 ½ weeks for the entire school year.

Explanation of Formative Assessment and Summative Assessment:

- **Formative Assessment**
  - Homework

    Homework will be given on most nights. Homework reinforces the material taught in class. Each homework assignment may be reviewed/graded at the beginning of class the following day. The assignment will be graded based on correctness and completion per instructions.

  - Class work

    Class work will consist of, but not be limited to, discovery activities implementing the State Standards. Class work will be reviewed/graded during class or at the completion of the assignment. The assignment will be graded based on correctness and completion per instructions.

  - Make-up work/Late work

    Each student is responsible for making up any missed assignment, quiz, and/or test. The student is responsible for getting their missing work from the Absent Wall or Google Classroom upon returning to school. The student must schedule a time for any make-ups the day he/she returns to school. If the student does not make up the work missed within the allotted time frame (5 days for each day missed), then he/she will receive a zero on the missed work.

  - Benchmarks

    Each student will be assessed every 9 weeks on the state standards covered up to that point. Students are not allowed to bring the benchmarks home. All exams will be discussed in class and the student's grade will be entered into Skyward.

  - Projects

    Throughout the school year I may assign an occasional project to emphasize the skills that have been presented in class. A project description and rubric will be given to each student at the beginning of the project.

- **Summative Assessment**
  - Quizzes

    Quizzes are given during each unit; usually every Friday. Each quiz will be announced at least one day prior. Quizzes allow the student to practice skills prior to a module test.

- Module Tests

  At the end of each module a test will be given. Students are not allowed to bring the test home. All tests will be discussed in class and the student's grade will be entered into Skyward.

- End of Course Test (EOC)

  The State of Tennessee End Of Course Test will be administered at the end of the year. Since Questar, our new state testing coordinator, was just recently announced, more information will be coming later in the year about testing. The EOC will count 25% of the student's final grade in Algebra I.

Skyward Posting & Google Classroom

- The most effective way to communicate with students and parents is through Skyward. In order to give timely feedback, I will update grades at least once a week. Students and parents should check Skyward on a regular basis. Please do not wait until the end of a grading period to check a student's grade. I would hate for there to be a surprise regarding the success of your child in Algebra I.
- Your student will be a member of Google Classroom for his/her Algebra I class. Google Classroom will be updated daily with homework and announcements. Each student should be checking Google Classroom regularly. When absent, the student is expected to obtain his/her homework from the Absent Wall and/or Google Classroom.

General Expectations

- Students
  - Work must be completed in pencil ONLY.
  - Students are to SHOW ALL WORK. If students write only the answer, he/she will receive no credit on that assignment.
  - Complete assignments on time. No late work will be accepted unless the student was absent the day it was assigned.
  - Students are to be prepared for class—bring math book, binder, and pencil. Students will not be allowed to go to their locker during class. Each student's math binder must be kept neat and orderly and brought to class each day. Students are subject to a binder check without notice.
  - Absent students are expected to check the absent wall or Google Classroom for any missed assignments.

- Teacher Information
  - E-mail: laceyfoutch@dekalbschools.net (This is the best way to contact me.)
  - School Phone number: 615-597-2246 Please allow at least 1 full day to 1 ½ days to respond.

Andrew Dixon
andrewdixon@dekalbschools.net

Honors Algebra 1 Syllabus

Course Description: Algebra 1 is a course that introduces students to the theoretical foundations of Algebra through problem solving. Students will study algebraic notations and arithmetic operations involving real numbers. Students will learn to work with advanced topics such as: algebraic fractions, systems of equations, radicals, factoring, etc. As an honors class, students should expect extra projects as well as an accelerated pace with more depth.

Classroom Expectations: It is my expectation that all students in my classroom will abide by the rules set forth by the DCHS student handbook. Moreover, students should also exhibit **Tiger PRIDE**: perseverance, restraint, integrity, decency, and enthusiasm.

Grade Scale:

- π 93-100 A; 85-92 B; 75-84 C; 70-74 D; 0-69 F

Grading: Grades will be weighted with the following percentages per 9 weeks.

- π Quizzes: 60%
- π Prelims: 20%
- π Homework: 10%
- π Notebook 10%

Semester Average

- π Semester 75%
- π Final 25%

Quizzes:

- π There will usually be one quiz per week. Quizzes will focus on procedural understanding.

Prelims:

- π A prelim will be given once per 9 weeks. Prelims will cover the topics from the 9 weeks and will include both procedural and critical thinking problems. Tentative dates are listed.
  - ≈ September 29
  - ≈ December 2

Homework:

- π Homework will be taken up daily and checked for completeness and accuracy.
- π **ALL work must be shown on your homework to receive full credit.**
- π *Any worksheets that are assigned should be completed on a separate sheet of paper.*
- π ALL work will be done in **pencil only**. Work done in ink will not be accepted.
- π ALL WORK MUST BE TURNED IN ON TIME.

Notebook:

- π I will collect notebooks on scheduled prelim days. I will be checking to see that you have the **notes** from each day of class.

Absences:

Andrew Dixon
andrewdixon@dekalbschools.net

- It is **YOUR** responsibility to find out and make-up what you missed!
- No make-up prelims will be given during class time. It is YOUR responsibility to make an appointment after school to take the prelim! Quizzes can be made up during class, but the student should schedule a time to do so before the desired make-up day.

General Procedures:

- Once you enter the room, please make every effort to handle any business (sharpening pencils, getting calculators, etc.) before the bell rings. There will be work posted every day to begin when the bell rings. It is my expectation that you begin that immediately after the bells rings.
- You must always be prepared for class. This means you **ALWAYS** need something to write with, something to write on, your notebook, and your homework!
- Students in my classroom must be respectful of those that are speaking by not speaking when I am teaching, when another student is asking a question or when there are school-wide announcements on the intercom.
- Please raise your hand if you wish to ask a question.
- After instruction begins please remain in your seat.
- Please keep the area around your seats clean. Do not move the desks around or write on them.

Supply List:

- Pencils (Pens if you want to take notes in pen)
- 3 ring binder (-inch should be enough)
- Paper

Academic Dishonesty: The Math department expects each student to be honest and to do his or her own work. Cheating is not allowed, tolerated, or accepted. If a student is found cheating he or she will be given a zero for the assignment, test, or quiz. Cheating is but not limited to copying another's work, test, quiz, or committing plagiarism.

Course Outline and Calendar: The course will cover the topics listed in the Tennessee state standards found here: https://www.tn.gov/assets/entities/education/attachments/std_math_algebra_I.pdf . This course will be divided into three major areas: Structure and Operations (24 – 28 %), Equations and Inequalities (30 – 33 %), and Functions and Interpreting Data (38 – 40 %). For more information please see this document:
https://www.tn.gov/assets/entities/education/attachments/tnready_blueprints_math_traditional_grade_9-12.pdf

Online Resources: Though many teachers will be using Google classroom this year, I will continue to use my personal website. I will place a link within my Google classrooms and at the end of this section. The site can also be reached by Google searching "Mr. Dixon DCHS"; it should be the first item listed.
https://sites.google.com/a/cornell.edu/dchs/

DeKalb Co. High School
Mathematics Department
Geometry Syllabus
2016-2017

Instructor:
Mrs. Jeanine Cantrell

Course Outcome:

- Geometry uses problem situations, physical models, and appropriate technology to investigate and justify geometric concepts and relationships. Problem-solving situations provide all students an environment that promotes communication, engages student reasoning, and fosters connections within mathematics, to other disciplines, and to the real world. Students will use physical models to represent, explore, develop, and apply abstract concepts. The use of appropriate technology will help students develop mathematics needed in an increasingly technological world. The concepts and topics emphasized in the course include measurement, geometric patterns, coordinate geometry, two- and three-dimensional figures, transformational geometry, congruence, similarity, inductive and deductive reasoning, logic, and proof.
- The State of Tennessee Mathematics Standards can be found at the following web address: www.tennessee.gov

Instruction:

Module 1: Essential Geometry Tools
Module 2: Understanding Transformations
Module 3: Triangles and Triangle Congruence
Module 4: Quadrilaterals

- **Materials Needed:**
  1 Notebook paper to be replaced throughout the year.
  2 Pencils (numerous) to be replaced throughout the year.
  3 1-inch (or larger) Binder
  4 5-tab Dividers
  5 Calculator Recommendations: A TI-83+, TI-84, or TI Inspire graphing calculator. Students will be given a calculator to use while at school, but may not take it out of the classroom.
- **Resources**
  Textbooks: Holt McDougal Geometry
  Supplemental Materials

Assessment:

- **Grading:**

DeKalb County Grading Scale

100-93	A
92-85	B
84-75	C
74-70	D
69-0	F

Grades will be calculated using the following:

- Class Assignments = 80%
- Assessments = 20%

Report Cards:

Each student will receive a progress report every 4 ½ weeks for the entire school year. Students' grades will be cumulative for the entire year.

Explanation of Formative Assessment and Summative Assessment:

- Class Work

  Class work will consist of, but not be limited to activities implementing the State Standards. Class work will be reviewed/graded during class or at the completion of the assignment. The assignment will be graded based on correctness and completion per instructions.

- Make-up Work/Late work

  Each student is responsible for making up any missed assignment, quiz, and/or test. The student is responsible for getting their missing work from the Absent Wall upon returning to school. The student must schedule a time for any make-ups the day he/she returns to school. If the student does not make up the work missed within the allotted time frame (5 days for each day missed), then he/she will receive a zero on the missed work.

- Benchmarks

  Each student will be assessed every 9 weeks on the state standards covered up to that point. Students are not allowed to bring the benchmarks home. All exams will be discussed in class and the student's grade will be entered into skyward.

Summative Assessment

- Quizzes

  Quizzes are given during each unit; usually every Friday. Some quizzes will be pop quizzes and some will be announced. Quizzes allow the student to practice skills prior to a module test. Concepts taught in previous modules may be included on current module quiz.

- Module Tests

  At the end of each module a test will be given. Students are not allowed to bring the test home. All tests will be discussed in class and the student's grade will be entered into skyward.

- End of Course Test (EOC)

  An End of Course Test (EOC) will not be given at the end of Geometry 1A. A Final Test will be administered. The Final Test will count 25% of the student's final grade in Algebra 1A.

Skyward Posting Policy

- The most effective way to communicate with students and parents is through skyward. In order to give timely feedback, I will update grades at least once a week. Students and parents should be checking Skyward on a regular basis. Please do not wait until the end of a grading period to check a student's grade. I would hate for there to be a surprise regarding the success of your child in Geometry 1A.

General Expectations

Students:

- Work must be completed in pencil **ONLY.**
- Students are to **SHOW ALL WORK**. If students write only the answer, he/she will receive no credit on that assignment.
- Complete assignments on time. No late work will be accepted unless the student was absent the day it was assigned.
- Student are to be prepared for class – bring binder, and pencil; Geometry books will remain in the classroom. (Students may check a text book out to bring home as needed. Book must be returned the following day and checked back in). Students will not be allowed to go to their locker during class. Each student's math binder must be kept neat and orderly and brought to class each day. Students are subject to a binder check without notice.
- Students may periodically be allowed to use math notebook for reference on a test or quiz, so it is important to take good notes and complete all bell ringers.
- Absent students are expected to check the absent wall for any missed assignments.

Teacher:

Communication Strategy

- E-mail: [redacted]
- School Phone Number: 615-597-4751
- Google Classroom will be updated daily with assignments and announcements. Each student should be checking Google Classroom daily. When absent, the student is expected to obtain his/her assignment from the Absent Wall and/or Google Classroom.
- Extra Help- DeKalb Co. High School offers several opportunities for after-school tutoring during the year.

Geometry Syllabus
Coach Porter
jimporter@dekalbschools.net

Prerequisites: Algebra 1

Course Description:
Geometry uses problem situations, physical models, and appropriate technology to investigate and justify geometric concepts and relationships. Problem-solving situations provide all students an environment that promotes communication, engages student reasoning, and fosters connections within mathematics, to other disciplines, and to the real world. Students will use physical models to represent, explore, develop, and apply abstract concepts. The use of appropriate technology will help students develop mathematics needed in an increasingly technological world. The concepts and topics emphasized in the course include measurement, geometric patterns, coordinate geometry, two- and three-dimensional figures, transformational geometry, congruence, similarity, inductive and deductive reasoning, logic, and proof.

Textbook: Geometry, Holt McDougal
In addition to the textbook, students may also go to khanacademy.org and search for a topic if they need further explanation.

Google Classroom:
classroom.google.com

Course Standards: Can be found at
http://tn.gov/assets/entities/education/attachments/std_math_geometry.pdf

Course Pacing Guide:
Module 1: Essential Geometry Tools (25 days)
Module 2: Understanding Transformations (13 days)
Module 3: Triangles and Triangle Congruence (23 days)
Module 4: Quadrilaterals (16 days)
Module 5: Similarity (13 days)
Module 6: Trigonometry (16 days)
Module 7: Extending to Three Dimensions (13 days)
Module 8: Circles (23 days)

Classroom Expectations:

- Be in your seat with all materials and on task when the bell rings.
- Start Bell Work as soon as the bell rings.
- RESPECT the rights and property of the teacher, yourself, and others.
- Follow directions the first time they are given

Grading: You will be given points for all assignments, but grades will be weighted with the following percentages per 9 weeks.

- Tests: 50%
- Daily work: 25%
- Quizzes/Notebook: 25%

Grade Scale:

- A 93-100
- B 85-92
- C 75-84
- D 70-74
- F 0-69

Absences:

- If you are absent, you need to get notes from a classmate or see me at the beginning or end of class.
- It is **YOUR** responsibility to find out what you missed!
- Make-up work will be completed in a timely manner (days absent plus 2) this includes tests, quizzes, and homework.
- No make-up tests will be given during class time. It is YOUR responsibility to make an appointment after school to take the test!

Academic Dishonesty: The Math department expects each student to be honest and to do their own work. Cheating is not allowed, tolerated, or accepted. If a student is found cheating they will be given a zero for the assignment, test, or quiz. Cheating is, but not limited to, copying another's work, test, quiz, or committing plagiarism.

Supply List:

- 3-ring binder
- Lose-leaf paper
- Pencils (no pens)

****If students are struggling, there is math tutoring available. Please see the teacher for times. ****

Please read this course syllabus carefully, and if you have any questions or comment, call Coach Porter at the high school. This page must be signed by both the student and a parent or guardian, and returned by Aug. 19. Please keep the syllabus for your records.

I have read and I understand the attached course syllabus.

Geometry Syllabus
(Subject to change upon teacher discretion)
Teacher: Mrs. Sara Young
Email: sarayoung@dekalbschools.net

Prerequisites: Algebra 1

Course Description:
Geometry uses problem situations, physical models, and appropriate technology to investigate and justify geometric concepts and relationships. Problem-solving situations provide all students an environment that promotes communication, engages student reasoning, and fosters connections within mathematics, to other disciplines, and to the real world. Students will use physical models to represent, explore, develop, and apply abstract concepts. The use of appropriate technology will help students develop mathematics needed in an increasingly technological world. The concepts and topics emphasized in the course include measurement, geometric patterns, coordinate geometry, two- and three-dimensional figures, transformational geometry, congruence, similarity, inductive and deductive reasoning, logic, and proof.

Textbook: Geometry, College Board © 2015
In addition to the textbook, students may also go to khanacademy.org and search for a topic if they need further explanation.

Google Classroom:
classroom.google.com
Class code: yy4wdn

Course Standards: Can be found at
http://tn.gov/assets/entities/education/attachments/std_math_geometry.pdf

Course Pacing Guide:
Module 1: Essential Geometry Tools (25 days)
Module 2: Understanding Transformations (13 days)
Module 3: Triangles and Triangle Congruence (23 days)
Module 4: Quadrilaterals (16 days)
Module 5: Similarity (13 days)
Module 6: Trigonometry (16 days)
Module 7: Extending to Three Dimensions (13 days)
Module 8: Circles (23 days)

Classroom Expectations:

- Be in your seat with all materials and on task when the bell rings.
- Start Bell Work as soon as the bell rings.
- RESPECT the rights and property of the teacher, yourself, and others.
- Cell phones and other electronics are not allowed in the classroom.
    - Cell phones must be off.
    - Cell phones must be out of sight (if I see a cell phone, I will take it).
- Follow directions the first time they are given.
- No food or drink in the classroom (Except water).

Classroom Consequences:

- Teacher's discretion, but not limited to, write-offs, student conference, phone calls to parents, conference with parents, after-school detention, and/or office referral.

Grading: You will be given points for all assignments, but grades will be weighted with the following percentages per 9 weeks.

- Tests: 50%
- Daily work: 30%
- Notebook: 20%

Grade Scale:

- A 93-100
- B 85-92
- C 75-84
- D 70-74
- F 0-69

Absences:

- If you are absent, you need to get notes from a classmate or see me at the beginning or end of class.
- It is **YOUR** responsibility to find out what you missed!
- Make-up work will be completed in a timely manner (days absent plus 2) this includes tests, quizzes, and homework.
- No make-up tests will be given during class time. It is YOUR responsibility to make an appointment after school to take the test!

Academic Dishonesty: The Math department expects each student to be honest and to do their own work. Cheating is not allowed, tolerated, or accepted. If a student is found cheating they will be given a zero for the assignment, test, or quiz. Cheating is, but not limited to, copying another's work, test, quiz, or committing plagiarism.

Supply List:

- 3-ring binder
- Lose-leaf paper
- Pencils (no pens)

****If students are struggling, there is math tutoring available. Please see the teacher for times. ****

Geometry B Syllabus
(Subject to change upon teacher discretion)
Teachers: Mrs. Sara Young and Ms. Debbie Gentry
Email: sarayoung@dekalbschools.net and deborahgentry@dekalbschools.net

Prerequisites: Algebra 1

Course Description:
Geometry uses problem situations, physical models, and appropriate technology to investigate and justify geometric concepts and relationships. Problem-solving situations provide all students an environment that promotes communication, engages student reasoning, and fosters connections within mathematics, to other disciplines, and to the real world. Students will use physical models to represent, explore, develop, and apply abstract concepts. The use of appropriate technology will help students develop mathematics needed in an increasingly technological world. The concepts and topics emphasized in the course include measurement, geometric patterns, coordinate geometry, two- and three-dimensional figures, transformational geometry, congruence, similarity, inductive and deductive reasoning, logic, and proof.

Textbook: Geometry, College Board © 2015
In addition to the textbook, students may also go to khanacademy.org and search for a topic if they need further explanation.

Google Classroom:
classroom.google.com
Class code: su71qml

Course Standards: Can be found at
http://tn.gov/assets/entities/education/attachments/std_math_geometry.pdf

Course Pacing Guide:
- Module 1: Review of Geometry A (10 days)
- Module 2: Quadrilaterals (32 days)
- Module 3: Similarity (26 days)
- Module 4: Trigonometry (32 days)
- Module 5: Extending to Three Dimensions (26 days)
- Module 8: Circles (36 days)

Classroom Expectations:

- Be in your seat with all materials and on task when the bell rings.
- Start Bell Work as soon as the bell rings.
- RESPECT the rights and property of the teacher, yourself, and others.
- Cell phones and other electronics are not allowed in the classroom.
    - Cell phones must be off.
    - Cell phones must be out of sight (if we see a cell phone, we will take it).
- Follow directions the first time they are given.
- No food or drink in the classroom (Except water).

Classroom Consequences:

- Teachers' discretion, but not limited to, write-offs, student conference, phone calls to parents, conference with parents, after-school detention, and/or office referral.

Grading: You will be given points for all assignments, but grades will be weighted with the following percentages per 9 weeks.

- Tests: 30%
- Daily work: 40%
- Notebook: 30%

Grade Scale:

- A 93-100
- B 85-92
- C 75-84
- D 70-74
- F 0-69

Absences:

- If you are absent, you need to get notes from a classmate or see me at the beginning or end of class.
- It is **YOUR** responsibility to find out what you missed!
- Make-up work will be completed in a timely manner (days absent plus 2) this includes tests, quizzes, and homework.
- No make-up tests will be given during class time. It is YOUR responsibility to make an appointment after school to take the test!

Academic Dishonesty: The Math department expects each student to be honest and to do their own work. Cheating is not allowed, tolerated, or accepted. If a student is found cheating they will be given a zero for the assignment, test, or quiz. Cheating is, but not limited to, copying another's work, test, quiz, or committing plagiarism.

Supply List:

- 3-ring binder
- Loose-leaf paper
- Pencils (no pens)

****If students are struggling, there is math tutoring available. Please see the teacher for times. ****

Honors Geometry Syllabus
(Subject to change upon teacher discretion)
Teacher: Mrs. Sara Young
Email: sarayoung@dekalbschools.net

Prerequisites: Algebra 1

Course Description:
Geometry uses problem situations, physical models, and appropriate technology to investigate and justify geometric concepts and relationships. Problem-solving situations provide all students an environment that promotes communication, engages student reasoning, and fosters connections within mathematics, to other disciplines, and to the real world. Students will use physical models to represent, explore, develop, and apply abstract concepts. The use of appropriate technology will help students develop mathematics needed in an increasingly technological world. The concepts and topics emphasized in the course include measurement, geometric patterns, coordinate geometry, two- and three-dimensional figures, transformational geometry, congruence, similarity, inductive and deductive reasoning, logic, and proof.

Textbook: Geometry, College Board © 2015
In addition to the textbook, students may also go to khanacademy.org and search for a topic if they need further explanation.

Google Classroom:
classroom.google.com
Class code: cyyd4p

Course Standards: Can be found at
http://tn.gov/assets/entities/education/attachments/std_math_geometry.pdf

Course Pacing Guide:
Module 1: Essential Geometry Tools (25 days)
Module 2: Understanding Transformations (13 days)
Module 3: Triangles and Triangle Congruence (23 days)
Module 4: Quadrilaterals (16 days)
Module 5: Similarity (13 days)
Module 6: Trigonometry (16 days)
Module 7: Extending to Three Dimensions (13 days)
Module 8: Circles (23 days)

Classroom Rules:

- Be in your seat with all materials and on task when the bell rings.
- Start Bell Work as soon as the bell rings.
- RESPECT the rights and property of the teacher, yourself, and others.
- Cell phones and other electronics are not allowed in the classroom.
    - Cell phones must be OFF.
    - Cell phones must be out of sight (if I see a cell phone, I will take it).
- Follow directions the first time they are given.
- No food or drink in the classroom (Except water).

Classroom Consequences:

- Teacher's discretion, but not limited to, write-offs, student conference, phone calls to parents, parents conference, lunch detention, after-school detention, and/or office referral.

Grading: You will be given points for all assignments, but grades will be weighted with the following percentages per 9 weeks.

- Tests: 50%
- Daily Work: 30%
- Notebook: 20%

Grade Scale:

- A 93-100
- B 85-92
- C 75-84
- D 70-74
- F 0-69

Absences:

- If you are absent, you need to get notes from a classmate or see me at the beginning or end of class.
- It is <u>YOUR</u> responsibility to find out what you missed!
- Make-up work will be completed in a timely manner (days absent plus 2) this includes tests, quizzes, and homework.
- No make-up tests will be given during class time. It is YOUR responsibility to make an appointment after school to take the test!

Academic Dishonesty: The Math department expects each student to be honest and to do their own work. Cheating is not allowed, tolerated, or accepted. If a student is found cheating they will be given a zero for the assignment, test, or quiz. Cheating is, but not limited to, copying another's work, test, quiz, or committing plagiarism.

Supply List:

- 3-ring binder
- Lose-leaf paper
- Pencils (no pens)

****If students are struggling, there is math tutoring available. Please see the teacher for times. ****

Andrew Dixon
andrewdixon@dekalbschools.net

Advanced Honors Geometry Syllabus

Course Description: This course deals with the properties of plane and solid figures, such as triangle, quadrilaterals, polygons, circles, spheres, prisms, cylinders, and cones, with emphasis placed on logical reasoning. The relationships between parallel and perpendicular lines, as well as the concepts of congruency and similarity, are also studied. As an honors class, students should expect extra projects as well as an accelerated pace with more depth.

Classroom Expectations: It is my expectation that all students in my classroom will abide by the rules set forth by the DCHS student handbook. Moreover, students should also exhibit **Tiger PRIDE**: perseverance, restraint, integrity, decency, and enthusiasm.

Grade Scale:

- π 93-100 A; 85-92 B; 75-84 C; 70-74 D; 0-69 F

Grading: Grades will be weighted with the following percentages per 9 weeks.

- π Quizzes: 60%
- π Prelims: 20%
- π Homework: 10%
- π Notebook 10%

Semester Average

- π Semester 75%
- π Final 25%

Quizzes:

- π There will usually be one quiz per week. Quizzes will focus on procedural understanding.

Prelims:

- π A prelim will be given once per 9 weeks. Prelims will cover the topics from the 9 weeks and will include both procedural and critical thinking problems. Tentative dates are listed.
  - ≈ September 29
  - ≈ December 2

Homework:

- π Homework will be taken up daily and checked for completeness and accuracy.
- π **ALL work must be shown on your homework to receive full credit.**
- π *Any worksheets that are assigned should be completed on a separate sheet of paper.*
- π ALL work will be done in **pencil only**. Work done in ink will not be accepted.
- π ALL WORK MUST BE TURNED IN ON TIME.

Notebook:

- π I will collect notebooks on scheduled prelim days. I will be checking to see that you have the **notes** from each day of class.

Absences:

Andrew Dixon
andrewdixon@dekalbschools.net

- It is **YOUR** responsibility to find out and make-up what you missed!
- No make-up prelims will be given during class time. It is YOUR responsibility to make an appointment after school to take the prelim! Quizzes can be made up during class, but the student should schedule a time to do so before the desired make-up day.

General Procedures:

- Once you enter the room, please make every effort to handle any business (sharpening pencils, getting calculators, etc.) before the bell rings. There will be work posted every day to begin when the bell rings. It is my expectation that you begin that immediately after the bells rings.
- You must always be prepared for class. This means you **ALWAYS** need something to write with, something to write on, your notebook, and your homework!
- Students in my classroom must be respectful of those that are speaking by not speaking when I am teaching, when another student is asking a question or when there are school-wide announcements on the intercom.
- Please raise your hand if you wish to ask a question.
- After instruction begins please remain in your seat.
- Please keep the area around your seats clean. Do not move the desks around or write on them.

Supply List:

- Pencils (Pens if you want to take notes in pen)
- 3 ring binder (-inch should be enough)
- Paper

Academic Dishonesty: The Math department expects each student to be honest and to do his or her own work. Cheating is not allowed, tolerated, or accepted. If a student is found cheating he or she will be given a zero for the assignment, test, or quiz. Cheating is but not limited to copying another's work, test, quiz, or committing plagiarism.

Course Outline and Calendar: The course will cover the topics listed in the Tennessee state standards found here: https://www.tn.gov/assets/entities/education/attachments/std_math_geometry.pdf . This course will be divided into four major areas: Congruence (24 – 28 %), Geometric Proofs and Solving Design Problems (10 – 14 %), Two and Three Dimensional Geometry (16 – 19 %), and Triangles and Circles (38 – 40 %). For more information please see this document: https://www.tn.gov/assets/entities/education/attachments/tnready_blueprints_math_traditional_grade_9-12.pdf

Online Resources: Though many teachers will be using Google classroom this year, I will continue to use my personal website. I will place a link within my Google classrooms and at the end of this section. The site can also be reached by Google searching "Mr. Dixon DCHS"; it should be the first item listed. https://sites.google.com/a/cornell.edu/dchs/

Algebra 2 Syllabus

Teacher: John Pryor
Email: johnpryor@dekalbschools.net
DCHS room: 38

Prerequisites: Algebra 1, Geometry

Textbook: Holt McDougal Algebra 2

Course Description: This course reviews and builds upon concepts presented in Algebra 1. Specific content is selected to strengthen basic Algebra skills and to provide the necessary background for advanced mathematical courses in high school and college. The study of the number system is expanded beyond the set of real numbers to the set of complex numbers. Other topics may include sequences and series, statistics and data interpretation, trigonometry, exponential and logarithmic functions, radical functions, polynomial functions and quadratics.

Course Standards: Can be found at
https://www.tn.gov/assets/entities/education/attachments/std_math_algebra_II.pdf

Calendar:

Module 1 Linear Review	2 Weeks
Module 2 Quadratics	6 Weeks
Module 3 Polynomial Functions	3 Weeks
Module 4 Rational Functions	2 Weeks
Module 5 Radical Functions	2 Weeks
Module 6 Exponential and Logarithmic Functions	3 Weeks
Module 7 Trigonometry	4 Weeks
Module 8 Statistics and Data Interpretation	3 Weeks
Module 9 Sequences and Series	2 Weeks

Classroom Rules:

- Be in your seat with all materials and on task when the bell rings.
- Start Bell Work as soon as the bell rings.
- RESPECT the rights and property of the teacher, yourself, and others.
- Cell phones and other electronics are not allowed in the classroom.
    - Cell phones must be OFF.
    - Cell phones must be out of sight (if I see a cell phone, I will take it).
- Follow directions the first time they are given.

Classroom Consequences:

- Teacher's discretion, but not limited to, write-offs, student conference, phone calls to parents, parents conference, lunch detention, after-school detention, and/or office referral.

Grading: You will be given points for all assignments, but grades will be weighted with the following percentages per 9 weeks.

- Tests: 60%
- Homework, Quizzes, and Class Participation 40%

Grade Scale:

- A 93-100
- B 85-92
- C 75-84
- D 70-74
- F 0-69

Absences:

- It is **YOUR** responsibility to find out what you missed!
- Make-up work will be completed in a timely manner (days absent plus 1) this includes test, quizzes, and homework.
- No make-up tests will be given during class time. It is YOUR responsibility to make an appointment after school to take the test!

Homework:

- ALL work must be shown on your homework to receive full credit.
- ALL graphs should be done on graph paper.
- Random problems from homework may be checked and/or graded for completeness and correctness.
- Any worksheets that are assigned should be completed on a separate sheet of paper and not crammed into the small spaces provided by the worksheet.
- I will not except late work.
- ALL work will be done in **pencil only**. Work done in ink will not be accepted.

Tests:

- Test will be given about every two weeks. There will be three benchmark tests given and one end of course test. The benchmark tests will be given in October, December, and March. The end of course test will be given in May. The end of course test will count for 25% of your grade second semester.

General Procedures:

- Once you enter the room, please make every effort to handle any business (sharpening pencils, getting books out, getting calculators etc) before the bell rings. There will be bell work on the whiteboard every day and it is my expectation that you are to begin that immediately after the bells rings, without talking.
- You must always be prepared for class. This means you **ALWAYS** need something to write with, something to write on, and your **TEXTBOOK**! We may not use the book every day, but I expect you to have it with you when you are in my class.
- To be considered **ON TIME**, you must be through the doorframe at the start of the ringing of the bell.
- Students in my classroom must be respectful of those that are speaking by not speaking when I am teaching, when another student is asking a question or when there are school-wide announcements on the intercom.
- Please raise your hand if you wish to speak, or to answer a question. Since my classes are so large, we must be mindful of the noise level at all times.

- Once I have begun teaching, I would ask you to remain in your seat.
- Please keep the area around your seats clean. Do not move the desks around or write on them.
- Do not leave your textbooks in the classroom. They will be turned into the office.
- You **must wait for my dismissal** when the bell rings and I will only give that if all students are seated.
- These procedures are subject to modification throughout the school year as the need arises

Supply List:

- Pencils or Pens
- Loose leaf paper

Classroom Procedures

- Bell work
- Homework checked/Questions/Quiz
- New material
- Classwork/Activities
- Homework

Academic Dishonesty: The Math department expects each student to be honest and to do their own work. Cheating is not allowed, tolerated, or accepted. If a student is found cheating they will be given a zero for the assignment, test, or quiz. Cheating is but not limited to coping another's work, test, quiz, or committing plagiarism.

If students are struggling, there is math tutoring available. Please see the teacher for times.

Honors Algebra II Syllabus

Teacher: Jacob Parsley

Email: jacobparsley@dekalbschools.net

Prerequisite: Algebra I

Course Description: This course reviews and builds upon concepts presented in Algebra I. Specific content is selected to strengthen basic algebra skills and to provide the necessary background for advanced mathematical courses in high school and college, but at a faster pace and with more rigor than non-honors Algebra 2. The study of the number system is expanded beyond the set of real numbers to the set of complex numbers. Other topics include logarithms, radicals, rational expressions, basic trigonometry, statistics, and quadratic functions. More detail can be found on the included course schedule.

Classroom Expectations: All students will follow the rules set forth in the student handbook as well as the other procedures below. Additionally, I expect each student to put forth his or her best effort on all assigned classwork, homework, and assessments. I have high expectations for the behavior and performance of my honors classes.

Grading: Grades will be weighted with the following percentages per 9 weeks.

- Quizzes: 40%
- Tests: 20%
- Homework: 20%
- Classwork: 10%
- Notebook: 10%

Grade Scale:

- A: 93-100; B: 85-92; C: 75-84; D: 70-74; F: 0-69

Semester Average:

- Semester grade (Using above grading): 75%
- EOC: 25%

Quizzes:

- Quizzes will be given once per week, usually on Fridays.
- A quiz will cover the material covered since the previous quiz.

Tests:

- Tests will be given at the end of each module.
- A test will cover the material covered in the corresponding module.

Homework:

- Homework will be due at the beginning of class the day after it is assigned. Any work submitted after class begins will be considered late.
- All work should be done in pencil and on your own paper.

- Homework will be checked for completeness, as well as your adherence to the homework procedures. To receive full credit, you must show all work.

Notebook:

- You will be required to keep a notebook containing the notes from each class. Notes must be kept in order, with each section numbered and a table of contents as the first page in the notebook.
- There will be at least one unannounced notebook check per nine weeks. Notebooks will be checked to make sure you have the notes from each day of class.

Honors Credit: As this is an honors class, you will be required to do a project, such as a writing assignment, independent research, etc. Details will be given for this at a later time.

Absences:

- It is your responsibility to find out what you missed in the event that you are absent and to make up the missed work in a timely manner (days missed plus 1).
- Quizzes may be made up in class or before school. You must schedule a time with the teacher to make up a quiz at least a day before you plan to take it.
- Tests may not be made up during class time. You must schedule a time with the teacher to make up a test before school at least a day before you plan to take it.

Other Procedures:

- Upon entering the room, please make every effort to handle any business (sharpening pencils, getting calculators, etc.) before the bell rings. There will be work on the whiteboard every day when you come into class. Students will begin this work without talking as soon as the bell rings.
- Students will be prepared for class every day. This means having your pencil, paper, and notebook ready to go as soon as class starts, as well as homework to turn in.
- Remain in your seat and quiet while I am teaching, while students are working, and when there is an announcement on the intercom.
- Please raise your hand if you wish to ask a question.
- Keep the area around your seat clean. Do not write on the desks. Do not move the desk unless the teacher instructs you to do so.
- Please make sure to use the restroom before or after class. Students will not be excused to go to the restroom while I am teaching. If I let you go to the restroom during other parts of class, please go to the restroom in the science hall in the main building.
- Stay seated until I dismiss you from class. The bell does not dismiss you, and I will only dismiss you if all students are seated.

Academic Dishonesty: The Math department expects each student to be honest and to do his or her own work. Cheating is not allowed, tolerated, or accepted. If a student is found cheating, he or she will be given a zero for the assignment, test, or quiz. Cheating is, but is not limited to, copying another's work, test, quiz, or committing plagiarism.

Algebra 2 Course Schedule

Module 1	❖ Linear Review ➢ Graphing ➢ Forms of a linear equation ➢ Function notation ➢ Slope ➢ 2x2 Systems of equations	1 Week
Module 2	❖ Quadratics ➢ Graphing ▪ Vertex, zeroes, y-intercepts ▪ Vertex form ▪ Factored form ▪ Focus, Directrix ▪ Regression ▪ Modeling ➢ Equation Solving ▪ Factoring ▪ Completing the Square ▪ Quadratic formula ▪ Operations with quadratics ➢ System Solving	6 Weeks
Module 3	❖ Polynomial Functions ➢ Operations with polynomials ➢ Roots, zeroes, end behavior, factored forms ➢ Remainder Theorem ➢ Relative minimums/maximums ➢ Domain and Range	3 Weeks
Module 4	❖ Rational Functions ➢ Operations with rational expressions ➢ Solving rational equations and inequalities	2 Weeks
Module 5	❖ Radical Functions ➢ Simplify and rewrite radicals ➢ Solving radical equations ➢ Graphing ➢ Inverse functions	2 Weeks
Module 6	❖ Exponential and Log Functions ➢ Properties of logarithms ➢ Solving exponential and logarithmic equations ➢ Graphing ➢ Modeling	3 Weeks
Module 7	❖ Trigonometry ➢ Unit Circle ➢ Graphing trigonometric functions ➢ Applications of trigonometric functions	4 Weeks
Module 8	❖ Statistics and Data Interpretation ➢ What is Statistics? ▪ Sampling, experimental design, randomization ➢ Mean, median, mode, standard deviation ➢ Normal distribution ➢ Applications	3 Weeks
Module 9	❖ Sequences and Series ➢ Explicit and recursive definitions	2 Weeks

SAILS MATH SYLLABUS
2016-2017
Mrs. Charlotte Blaylock

Description: This course is a study of the properties of real number system, arithmetic operations with rational numbers and order of operations and simplification of variable expressions; solutions of linear and linear inequalities in one variable; graphing linear equations and inequalities; solving systems of linear equations; problem-solving; polynomial arithmetic; operations with integer exponents; factoring polynomials.

Provided Supplies: Laptop and non-graphing calculators

Suggested Supplies: Headphones or earbuds; personal laptop and calculators

Placement and Grading: Students with ACT's in math of less than 19 may be placed in SAILS. Students will receive a passing gradein SAILS Math only after proving mastery in all five (5) MLS competencies. This may be done by scoring a 70 or above on all homework and competency test. The grading formula is as follows:

Grade = .60(Competency Test Average) + .40(Homework average)

93-100 A
85-92 B
75-84 C
70-74 D
0-70 F

Note of Interest: Students will not be able to use a calculator of any kind while working on Competency 1 homework and Test. Graphing calculators aren't allowed in SAILS Math. Cell phone calculators aren't allowed in SAILS Math.

Competency 1: Real Number Sense and Operations

- Apply order of operations to evaluate expressions
- Perform operations with rational numbers
- Determine equivalent forms of a number when given a fraction, decimal, or percent
- Identify and calculate irrational numbers
- Recognize and apply absolute value and ordering real numbers
- Solve real- world problems

- Solve problems involving percents
- Determine area and perimeter or circumference of figures
- Write and compare numbers
- Applications dealing with volume and surface area

Competency 2: Operations with Algebraic Expressions

- Identify and simplify like terms
- Evaluate algebraic expressions
- Create a table of value from an expression
- Evaluate expressions involving power and roots
- Use the distributive property
- Add, subtract, and multiply polynomials
- Factor a polynomial
- Use the rules of exponents
- Solve real-world problems

Competency 4: Solve Equations/Inequalities

- Solve a linear equation in one variable
- Solve a linear inequalities in one variable
- Solve literal equations for a specified variable
- Solve proportions
- Solve real world problems

Competency 3: Analyze Graphs

- Create a table of values and graph
- Identify and interpret rate of change
- Use and interpret function notation
- Analyze a graph of a linear function (find x-and y- intercepts, and slope)
- Graph linear equations in two variables using x-intercepts, y-intercepts, and slope
- Write a linear equation in two variables
- Graph a linear inequality

Competency 5: System of Equations

- Solve systems by graphing, substitution method, and the elimination method
- Solve real-world problems dealing with system of equations

SAILS Pacing Guide
Fall 2016

Competency	Assignment	Due Date	Date Completed	Score
1	Orientation	8/8		
1	1.1	8/9		
1	1.2	8/10		
1	1.3	8/11		
1	1.4	8/12		
1	1.5	8/15		
1	1.6	8/16		
1	1.7	8/17		
1	1.8	8/18		
1	Test 1	8/19		
2	2.1	8/22		
2	2.2	8/23		
2	2.3	8/24		
2	2.4	8/25		
2	2.5	8/26		
2	2.6	8/29		
2	2.7	8/30		
2	2.8	8/31		
2	Test 2	9/1		

4	4.1	9/2		
4	4.2	9/6		

4	4.3	9/7		
4	4.4	9/8		
4	4.5	9/9		
4	Test	9/12		
3	3.1	9/13		
3	3.2	9/14		
3	3.3	9/15		
3	3.4	9/16		
3	3.5	9/19		
3	Test	9/20		
5	5.1	9/21		
5	5.2	9/22		
5	5.3	9/23		
5	5.4	9/26		
5	Test	9/27		

SAILS MATH SYLLABUS
Fall 2016
Mr. Pryor

Description: This course is a study of the properties of the real number system, arithmetic operations with rational numbers and order of operations; evaluation and simplification of variable expressions; solutions of linear equations and linear inequalities in one variable; graphing linear equations and inequalities; solving systems of linear equations and inequalities; problem-solving; polynomial arithmetic; operations with integer exponents; GCF factoring.

Provided Supplies: Laptop computers and calculators

Optional Supplies: Headphones or ear buds; personal laptops and calculators

Placement and Grading: Students with appropriate ACT scores will be placed in SAILS Math. Students will receive a passing grade in SAILS Math only after proving mastery in all five (5) MLS competencies. This may be done be scoring a 70 or above on all homework and competency test. The grading formula is as follows:

Grade = .60(Competency Test Average) + .40(Homework Average)

93-100	A
85-92	B
75-84	C
70-74	D
Below 70	F

Note of Interest: Students will not be allowed to use a calculator of any kind while taking the Competency 1 Test. Students will not be allowed to use a graphing calculator while taking any competency test. Students will not be allowed to use cell phone calculators while taking any competency test.

Competency 1, Real Number Sense and Operations

-Apply the order of operations to evaluate expressions.
-Perform operations with rational numbers.
-Determine the other equivalent forms of the number when given a fraction, decimal number, or percent.
-Identify and calculate with irrational numbers (no need to numerically simplify radical expressions).
-Recognize and apply magnitude (absolute value) and ordering of real numbers.
-Solve real-world application problems.
-Solve problems involving percent.
-Determine the area and perimeter (or circumference) of a triangle, rectangle, and circle.
-Determine equivalent measures of length, weight or mass, volume, or time when given either customary or metric units of measurement.
-Write and compare numbers in standard and scientific notation.
-Applications with volume and surface area.

Competency 2, Operations with Algebraic Expressions (including polynomials)

-Identify and simplify like terms.
-Evaluate algebraic expressions when given values for the variables.
-Create a table of values from an expression.
-Evaluate expressions involving powers and roots.
-Use the distributive law to write equivalent expressions.

Competency 2 Cont.

-Add, subtract and multiply polynomials.
-Factor a polynomial using GCF only.
-Simplify an expression involving integer exponents using the rules for exponents.
-Solve real-world application problems.

Competency 4, Solve Equations (emphasis on linear equations/inequalities)

-Solve a linear equation in one variable multiple approaches – numerical, graphical, and symbolic.
-Solve a linear inequality in one variable and graph the solutions.
-Solve formulas and literal equations for a specified variable.
-Solve proportions that simplify to linear expressions.
-Solve real-world application problems (including applications with volume, and surface area).

Competency 3, Analyze Graphs (emphasis on linear functions and graphs, including inequalities)

-Create a table of values and a graph for a given relations (may not be linear)
-Identify and interpret rate of change.
-Use and interpret function notation particularly as it relates to graphic and tabular data.
-Analyze the graph of a linear function identifying the x-intercepts, y-intercepts, and slope.
-Graph a linear equation in two variables using ordered pairs, using the x-intercepts and the y-intercepts, and using the slope and the y-intercepts.
-Write a linear equation in two variables when given information about their graphs.
-Graph linear inequalities in two variables.

Competency 5, Modeling and Critical Thinking

-Students integrate their mathematical development from MLS 1 through MLS 4 to make meaningful connections.
-Institutions should develop their own topics, suggested topics might in:
  -Solve a system of equations (may be non-linear) applying graphical methods, numeric methods, And algebraic methods (using substitution or elimination).
  -Probability, Statistics and Data Analysis.
  -Modeling with non-linear functions.

SAILS MATH PACING GUIDE

Competency	Assignment	Due Date	Date Completed	Score
	Orientation	8/12		
	1.1	8/12		
	1.2	8/12		
	1.3	8/19		
	1.4	8/19		
1	1.5	8/19		
	1.6	8/26		
	1.7	8/26		
	1.8	8/26		
	Comp 1 Test	8/26		
	2.1	9/2		
	2.2	9/2		
	2.3	9/9		
	2.4	9/9		
2	2.5	9/16		
	2.6	9/16		
	2.7	9/23		
	2.8	9/23		
	Comp 2 Test	9/23		
	4.1	9/30		
	4.2	9/30		
	4.3	9/30		
4	4.4	10/7		
	4.5	10/7		
	Comp 4 Test	10/28		
	3.1	10/28		
	3.2	10/28		
	3.3	11/4		
3	3.4	11/4		
	3.5	11/11		
	Comp 3 Test	11/18		
	5.1	11/22		
	5.2	11/22		
5	5.3	12/2		
	5.4	12/2		
	Comp 5 Test	12/9		

Statistics Syllabus
(Subject to change upon teacher discretion)
Teacher: Mrs. Sara Young
Email: sarayoung@dekalbschools.net
Prerequisites: Algebra 1, Geometry, and Algebra 2

Course Description:
The purpose of this course is to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to four broad conceptual themes:

- Exploring Data: Describing patterns and departures from patterns
- Sampling and Experimentation: Planning and conducting a study
- Anticipating Patterns: Exploring random phenomena using probability and simulation
- Statistical Inference: Estimating population parameters and testing hypotheses

Course Standards: Can be found at
https://www.tn.gov/assets/entities/education/attachments/std_math_statistics.pdf

Google Classroom:
classroom.google.com
Class code: bqxz7o

Course Pacing Guide:

Exploring Data: Describing patterns and departures from patterns (20%-30%)
Sampling and Experimentation: Planning and conducting a study (10%-15%)
Anticipating Patterns: Exploring random phenomena using probability and simulation (20%-30%)
Statistical Inference: Estimating population parameters and testing hypotheses (30%-40%)

Classroom Expectations:

- Be in your seat with all materials and on task when the bell rings.
- Start Bell Work as soon as the bell rings.
- RESPECT the rights and property of the teacher, yourself, and others.
- Cell phones and other electronics are not allowed in the classroom.
    - Cell phones must be off.
    - Cell phones must be out of sight (if I see a cell phone, I will take it).
- Follow directions the first time they are given.
- No food or drink in the classroom (Except water).

Classroom Consequences:

- Teacher's discretion, but not limited to, write-offs, student conference, phone calls to parents, conference with parents, after-school detention, and/or office referral.

Grading: You will be given points for all assignments, but grades will be weighted with the following percentages per 9 weeks.

- Tests: 50%
- Daily work: 30%
- Quizzes: 20%

Grade Scale:

- A 93-100
- B 85-92
- C 75-84
- D 70-74
- F 0-69

Absences:

- If you are absent, you need to get notes from a classmate or see me at the beginning or end of class.
- It is **YOUR** responsibility to find out what you missed!
- Make-up work will be completed in a timely manner (days absent plus 2) this includes tests, quizzes, and homework.
- No make-up tests will be given during class time. It is YOUR responsibility to make an appointment after school to take the test!

Academic Dishonesty: The Math department expects each student to be honest and to do their own work. Cheating is not allowed, tolerated, or accepted. If a student is found cheating they will be given a zero for the assignment, test, or quiz. Cheating is, but not limited to, copying another's work, test, quiz, or committing plagiarism.

Supply List:

- Paper
- Pencils (no pens)

****If students are struggling, there is math tutoring available. Please see the teacher for times. ****

Andrew Dixon
andrewdixon@dekalbschools.net

Honors Pre-AP Calculus AB Syllabus

Course Description: Calculus AB is a course in single-variable calculus that includes: techniques and applications of the derivative, techniques and applications of the definite integral, and the Fundamental Theorem of Calculus. In this course we will be learning the procedures of calculus with a strong emphasis on the algebraic methods behind calculus. Algebraic, numerical, and graphical representations are highlighted throughout the course. So that students might better appreciate the connections among various representations, it is assumed that they will have access to graphing calculators in class and on homework. To that end, and to shift the emphasis from mere computation to a deeper understanding of concepts, graphing calculators are required on portions of the AP Examination. All conceptual development of topics is reinforced using the TI-84 Plus graphing calculator. Problem solving communications are emphasized via individual and group writing and presentation. Student conceptual development of topics builds on numerical, graphical, analytical, and verbal connections.

Classroom Expectations: It is my expectation that all students in my classroom will abide by the rules set forth by the DCHS student handbook. Moreover, students should also exhibit **Tiger PRIDE**: perseverance, restraint, integrity, decency, and enthusiasm.

Grade Scale:

- π 93-100 A; 85-92 B; 75-84 C; 70-74 D; 0-69 F

Grading: Grades will be weighted with the following percentages per 9 weeks.

- π Quizzes: 60%
- π Prelims: 20%
- π Homework: 10%
- π Notebook 10%

Semester Average

- π Semester 75%
- π Final 25%

Quizzes:

- π There will usually be one quiz per week. Quizzes will focus on procedural understanding.

Prelims:

- π A prelim will be given once per 9 weeks. Prelims will cover the topics from the 9 weeks and will include both procedural and critical thinking problems. Tentative dates are listed.
  - ≈ September 29
  - ≈ December 2

Homework:

- π Homework will be taken up daily and checked for completeness and accuracy.
- π **ALL work must be shown on your homework to receive full credit.**
- π *Any worksheets that are assigned should be completed on a separate sheet of paper.*
- π ALL work will be done in **pencil only**. Work done in ink will not be accepted.
- π ALL WORK MUST BE TURNED IN ON TIME.

Notebook:

- π I will collect notebooks on scheduled prelim days. I will be checking to see that you have the **notes** from each day of class.

Absences:

- π It is **YOUR** responsibility to find out and make-up what you missed!
- π No make-up prelims will be given during class time. It is YOUR responsibility to make an appointment after school to take the prelim! Quizzes can be made up during class, but the student should schedule a time to do so before the desired make-up day.

General Procedures:

- π Once you enter the room, please make every effort to handle any business (sharpening pencils, getting calculators, etc.) before the bell rings. There will be work posted every day to begin when the bell rings. It is my expectation that you begin that immediately after the bells rings.
- π You must always be prepared for class. This means you **ALWAYS** need something to write with, something to write on, your notebook, and your homework!
- π Students in my classroom must be respectful of those that are speaking by not speaking when I am teaching, when another student is asking a question or when there are school-wide announcements on the intercom.
- π Please raise your hand if you wish to ask a question.
- π After instruction begins please remain in your seat.
- π Please keep the area around your seats clean. Do not move the desks around or write on them.

Supply List:

- π Pencils (Pens if you want to take notes in pen)
- π 3 ring binder (-inch should be enough)
- π Paper

Academic Dishonesty: The Math department expects each student to be honest and to do his or her own work. Cheating is not allowed, tolerated, or accepted. If a student is found cheating he or she will be given a zero for the assignment, test, or quiz. Cheating is but not limited to copying another's work, test, quiz, or committing plagiarism.

Course Outline and Calendar: The course will be split in three equal portions: limits, derivatives, and integrals. The standards for the class can be reached by following this link: https://secure-media.collegeboard.org/digitalServices/pdf/ap/ap-calculus-ab-and-bc-course-and-exam-description.pdf

Online Resources: Though many teachers will be using Google classroom this year, I will continue to use my personal website. I will place a link within my Google classrooms and at the end of this section. The site can also be reached by Google searching "Mr. Dixon DCHS"; it should be the first item listed. https://sites.google.com/a/cornell.edu/dchs/

Andrew Dixon
andrewdixon@dekalbschools.net

AP Calculus BC Syllabus

Course Description: Calculus BC is a continuation of Calculus AB that includes further topics in integration, the study of parametric, polar, and vector functions, and series tests with polynomial approximation. Algebraic, numerical, and graphical representations are emphasized throughout the course. So that students might better appreciate the connections among various representations, it is assumed that they will have access to graphing calculators in class and on homework. To that end, and to shift the emphasis from mere computation to a deeper understanding of concepts, graphing calculators are required on portions of the AP Examination. All conceptual development of topics is reinforced using the TI-84 Plus graphing calculator. Problem solving communications are emphasized via individual and group writing and presentation. Student conceptual development of topics builds on numerical, graphical, analytical, and verbal connections.

Classroom Expectations: It is my expectation that all students in my classroom will abide by the rules set forth by the DCHS student handbook. Moreover, students should also exhibit **Tiger PRIDE**: perseverance, restraint, integrity, decency, and enthusiasm.

Grade Scale:

- 93-100 A; 85-92 B; 75-84 C; 70-74 D; 0-69 F

Grading: Grades will be weighted with the following percentages per 9 weeks.

- Quizzes: 60%
- Prelims: 20%
- Homework: 10%
- Notebook 10%

Semester Average

- Semester 75%
- Final 25%

Quizzes:

- There will usually be one quiz per week. Quizzes will focus on procedural understanding.

Prelims:

- A prelim will be given once per 9 weeks. Prelims will cover the topics from the 9 weeks and will include both procedural and critical thinking problems. Tentative dates are listed.
  - September 29
  - December 2

Homework:

- Homework will be taken up daily and checked for completeness and accuracy.
- **ALL work must be shown on your homework to receive full credit.**
- *Any worksheets that are assigned should be completed on a separate sheet of paper.*
- ALL work will be done in **pencil only**. Work done in ink will not be accepted.
- ALL WORK MUST BE TURNED IN ON TIME.

Notebook:

Andrew Dixon
andrewdixon@dekalbschools.net

- π I will collect notebooks on scheduled prelim days. I will be checking to see that you have the **notes** from each day of class.

Absences:

- π It is **YOUR** responsibility to find out and make-up what you missed!
- π No make-up prelims will be given during class time. It is YOUR responsibility to make an appointment after school to take the prelim! Quizzes can be made up during class, but the student should schedule a time to do so before the desired make-up day.

General Procedures:

- π Once you enter the room, please make every effort to handle any business (sharpening pencils, getting calculators, etc.) before the bell rings. There will be work posted every day to begin when the bell rings. It is my expectation that you begin that immediately after the bells rings.
- π You must always be prepared for class. This means you **ALWAYS** need something to write with, something to write on, your notebook, and your homework!
- π Students in my classroom must be respectful of those that are speaking by not speaking when I am teaching, when another student is asking a question or when there are school-wide announcements on the intercom.
- π Please raise your hand if you wish to ask a question.
- π After instruction begins please remain in your seat.
- π Please keep the area around your seats clean. Do not move the desks around or write on them.

Supply List:

- π Pencils (Pens if you want to take notes in pen)
- π 3 ring binder (-inch should be enough)
- π Paper

Academic Dishonesty: The Math department expects each student to be honest and to do his or her own work. Cheating is not allowed, tolerated, or accepted. If a student is found cheating he or she will be given a zero for the assignment, test, or quiz. Cheating is but not limited to copying another's work, test, quiz, or committing plagiarism.

Course Outline and Calendar: The course will be split in three equal portions: integrals, two-dimensional motion, and series. The standards for the class can be reached by following this link: https://secure-media.collegeboard.org/digitalServices/pdf/ap/ap-calculus-ab-and-bc-course-and-exam-description.pdf

Online Resources: Though many teachers will be using Google classroom this year, I will continue to use my personal website. I will place a link within my Google classrooms and at the end of this section. The site can also be reached by Google searching "Mr. Dixon DCHS"; it should be the first item listed. https://sites.google.com/a/cornell.edu/dchs/

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AP Computer Science A Syllabus

Course Description: AP Computer Science A is equivalent to a first-semester, college-level course in computer science. The course introduces students to computer science with fundamental topics that include problem solving, design strategies and methodologies, organization of data (data structures), approaches to processing data (algorithms), analysis of potential solutions, and the ethical and social implications of computing. The course emphasizes both object- oriented and imperative problem solving and design using Java language. These techniques represent proven approaches for developing solutions that can scale up from small, simple problems to large, complex problems. The AP Computer Science A course curriculum is compatible with many CS1 courses in colleges and universities.

The Exams: The AP Computer Science A Exam is three hours in length and consists of a multiple-choice section and a free response section.

- The 90-minute multiple-choice section contains 40 questions (50 % of the grade).
- The 90-minute free-response section contains 4 questions (50% of the grade).

Classroom Expectations: It is my expectation that all students in my classroom will abide by the rules set forth by the DCHS student handbook. Moreover, students should also exhibit **Tiger PRIDE**: perseverance, restraint, integrity, decency, and enthusiasm.

Grade Scale:

- 93-100 A; 85-92 B; 75-84 C; 70-74 D; 0-69 F

Grading: Grades will be weighted with the following percentages per 9 weeks.

- Prelims: 25%
- Programming Assignments 75%

Semester Average

- Semester 75%
- Final 25%

Prelims:

- A prelim will be given at the end of each 9 weeks. Prelims will consist of multiple choice programming problems, short answer questions, and program design.

Programming Assignments:

- Programming assignments will be opportunities to solve problems by designing and implementing your own code. You will have at least one project for each unit.

Supply List:

- Pencils (Pens if you want to take notes in pen)
- 3 ring binder (-inch should be enough)
- Paper

Academic Dishonesty: I expect each student to be honest and to do his or her own work. Cheating is not allowed, tolerated, or accepted. If a student is found cheating, he or she will be given a zero for the

assignment, test, or quiz. Cheating is but not limited to copying another's work, test, quiz, or committing plagiarism.

Course Outline and Calendar: The course will cover the topics listed in the CollegeBoard AP Computer Science A course description found here: https://secure-media.collegeboard.org/digitalServices/pdf/ap/ap-computer-science-a-course-description.pdf . This course will be divided into nine units:

- ☺ Unit 1: Introduction to Java
- ☺ Unit 2: Conditionals and Loops
- ☺ Unit 3: Strings and 1-Dimensional Arrays
- ☺ Unit 4: Methods
- ☺ Unit 5: User-Defined Classes
- ☺ Unit 6: Advanced Classes
- ☺ Unit 7: Algorithms
- ☺ Unit 8: 2-Dimensional Arrays
- ☺ Unit 9: AP Exam Review

Online Resources: Though many teachers will be using Google classroom this year, I will continue to use my personal website. I will place a link within my Google classrooms and at the end of this section. The site can also be reached by Google searching "Mr. Dixon DCHS"; it should be the first item listed. https://sites.google.com/a/cornell.edu/dchs/