

WARREN COUNTY SCHOOL DISTRICT

PLANNED INSTRUCTION

COURSE DESCRIPTION

Course Title: Algebra I College Preparatory
Course Number: 10221
Course Prerequisites: Grade of 75% or higher in Pre-Algebra

Course Description: **Semester A**

Algebra 1 (semester A) introduces students to the world of Algebra through expressions and equations. Students will evaluate algebraic expressions, solve linear equations and graph them. This course also steers students through various real-world scenarios with the emphasis on using basic statistics to interpret the information given and found.

Students learn through online lesson materials, videos and interactive activities. The end of each unit tests students' understanding with a self-check quiz with feedback. Also included is a unit exam and project for students to apply what they have learned.

Teacher feedback is provided throughout the semester.

Major Concepts

- Algebraic Expressions
- Operations with Real Numbers
- Properties of Real Numbers
- Basic Statistics Measures
- Solving Simple and Multi-Step Equations
- Linear Functions and Graphs
- Solving Inequality Equations

Semester B

Algebra 1 (semester B) builds on the concepts learned in the first semester by providing a strong foundation in solving problems. Students will work with problems and applications that involve exponents, quadratic equations, polynomials and factoring methods, rational and radical equations, data analysis and probability.

Students will interact with course materials through online lessons, videos, interactive questions and real-world applications.

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Each unit ends with a self-check quiz to confirm knowledge of the concepts learned. There is also a unit exam and project. Teacher feedback is given throughout the course.

Major Concepts

- Exponents and Scientific Notation
- Arithmetic and Geometric Sequences
- Operations with Polynomials
- Systems of Equations
- Factoring Polynomials
- Quadratic Functions and Graphs
- Higher-Order Polynomials
- Data Analysis and Probability
- Exponential and Radical Equations
- Rational Functions and Equations

Suggested Grade Level: Grade 9

Length of Course: Two Semesters

Units of Credit: 1

PDE Certification and Staffing Policies and Guidelines (CSPG) Required Teacher Certifications:

CSPG #50 Mathematics

To find the CSPG information, go to <https://www.education.pa.gov/Educators/Certification/Staffing%20Guidelines/Pages/default.aspx>

Certification verified by the WCSD Human Resources Department: ☒ Yes ☐ No

WCSD STUDENT DATA SYSTEM INFORMATION

Course Level: Academic

Mark Types: Check all that apply.

☒ F – Final Average ☐ MP – Marking Period ☐ EXM – Final Exam

GPA Type: ☐ GPAEL-GPA Elementary ☐ GPAML-GPA for Middle Level ☒ NHS-National Honor Society

☐ UGPA-Non-Weighted Grade Point Average ☒ GPA-Weighted Grade Point Average

State Course Code: 02052

To find the State Course Code, go to <https://nces.ed.gov/forum/sced.asp>, download the Excel file for SCED, click on SCED 6.0 tab, and chose the correct code that corresponds with the course.

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TEXTBOOKS AND SUPPLEMENTAL MATERIALS

Board Approved Textbooks, Software, and Materials:

Title: Click or tap here to enter text.

Publisher: Click or tap here to enter text.

ISBN #: Click or tap here to enter text.

Copyright Date: Click or tap here to enter text.

WCSD Board Approval Date: Click or tap here to enter text.

Supplemental Materials: Accelerate Education (Virtual Academy)

Curriculum Document

WCSD Board Approval:

Date Finalized: 6/10/2019

Date Approved: Click or tap to enter a date.

Implementation Year: 2019-2020

SPECIAL EDUCATION, 504, and GIFTED REQUIREMENTS

The teacher shall make appropriate modifications to instruction and assessment based on a student's Individual Education Plan (IEP), Chapter 15 Section 504 Plan (504), and/or Gifted Individual Education Plan (GIEP).

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SCOPE AND SEQUENCE OF CONTENT, CONCEPTS, AND SKILLS

Performance Indicator	PA Core Standard and/or Eligible Content	Month Taught and Assessed for Mastery
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ASSESSMENTS

PSSA Academic Standards, Assessment Anchors, and Eligible Content: The teacher must be knowledgeable of the PDE Academic Standards, Assessment Anchors, and Eligible Content and incorporate them regularly into planned instruction.

Formative Assessments: The teacher will utilize a variety of assessment methods to conduct in-process evaluations of student learning.

Effective formative assessments for this course include: [Click or tap here to enter text.](#)

Summative Assessments: The teacher will utilize a variety of assessment methods to evaluate student learning at the end of an instructional task, lesson, and/or unit.

Effective summative assessments for this course include: [Click or tap here to enter text.](#)