

**WARREN COUNTY SCHOOL DISTRICT**

**PLANNED INSTRUCTION**

**COURSE DESCRIPTION**

**Course Title:** Grade 8 Math Elective

**Course Number:** 00279

**Course Prerequisites:** None

**Course Description:** Through online software and project based learning students will focus on the math concepts of exponents, solving equations, functions, writing linear equations, angles and triangles, transformations and similarity, and data sets.

**Suggested Grade Level:** Grade 8

**Length of Course:** One Semester

**Units of Credit:** .5

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

CSPG - Middle level Math or Secondary Math 7-12

To find the CSPG information, go to [CSPG](#)

**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:** 02999

To find the State Course Code, go to [State Course Code](#), 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:** Get More Math  
**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:** 6/29/2020

**Supplemental Materials:** Click or tap here to enter text.

**Curriculum Document**

**WCSD Board Approval:**

**Date Finalized:** 6/5/2020  
**Date Approved:** 6/29/2020  
**Implementation Year:** 2020-2021

**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**

<b>Performance Indicator</b>	<b>PA Core Standard and/or Eligible Content</b>	<b>Month Taught and Assessed for Mastery</b>
<b>Exponents</b>	CC.2.2.8.B.1	September February
Multiplying and Dividing Exponents		
Powers of Exponents		
Negative Exponents		
Scientific Notation with Positive Powers of 10		
Scientific Notation Operations		
Square Roots and Cube Roots		
<b>Solving Equations</b>	CC.2.2.8.B.1 CC.2.2.8.B.2 CC.2.2.8.B.3	September February
Two-Step Equations		
Equations with Variables on Both Sides		
Equations with Rational Numbers		
Equations Simplify		
Equations with Infinite or No Solutions		
Apply Equations to Solve Word Problems		
<b>Functions</b>	CC.2.2.8.C.1 CC.2.2.8.C.2	October March
Introduction to Functions		
Identify Function from Table		
Identify Function from Graph		
Domain and Range		
<b>Writing Linear Equations</b>	CC.2.2.8.B.1 CC.2.2.8.B.2 CC.2.2.8.B.3	October March
Writing Linear Equations Given Slope and y-Intercept		
Writing Linear Equations Given Graph		
Writing Linear Equations Given Table		
Apply the Concept of Writing Linear Equations to Word Problems		

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<b>Angles and Triangles</b>	CC.2.3.8.A3	November April
Parallel Lines Cut by a Transversal		
Triangle Sum Theorem		
Exterior Angle Theorem		
The Pythagorean Theorem		
Converse of Pythagorean Theorem		
Distance Between Two Points		
<b>Transformations/Similarities</b>	CC.2.3.8.A.2	November April
Properties of Translations		
Properties of Reflections		
Properties of Rotations		
Congruent Figures		
Transformations and Verbal Descriptions		
Properties of Dilations		
Similar Figures		
<b>Volume and Surface Area</b>	CC.2.3.8.A.1	December May
Volume of Cylinders		
Volume of Cones		
Volume of Spheres		
Volume of Cylinders, Cones, and Spheres		
<b>Data Sets</b>	CC.2.4.8.B.1 CC.2.4.8.B.2	January May
Scatter Plots		
Two-Way Frequency Tables		
Two-Way Relative Frequency Tables		

## **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:** Get More Math

**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:** Projects