

WARREN COUNTY SCHOOL DISTRICT

PLANNED INSTRUCTION

COURSE DESCRIPTION

Course Title: Mathematics 6
Course Number: 00203
Course Prerequisites: Completion of mathematics grade 5

Course Description: In Mathematics Grade 6, instructional time will focus on four critical areas: (1) connecting ratio and rate to whole number multiplication and division and using concepts of ratio and rate to solve problems; (2) completing understanding of division of fractions and extending the notion of number to the system of rational numbers, which includes negative numbers; (3) writing, interpreting, and using expressions and equations; and (4) developing understanding of statistical thinking

Suggested Grade Level: Grade 6
Length of Course: Two Semesters
Units of Credit: 1

PDE Certification and Staffing Policies and Guidelines (CSPG) Required Teacher Certifications:
CSPG #53 Middle Level Mathematics, CSPG# 41 Elementary Education, CSPG #70 Grades 4-8 (All subjects 4-6, Mathematics 7-8)

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: 02036

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: enVisionmath 2.0 Grade 6
Publisher: Pearson
ISBN #: 978-0-328-88090-4
Copyright Date: 2017
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
Date(s) Revised: 1/11/2021
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

Performance Indicator	PA Core Standard and/or Eligible Content	Month Taught and Assessed for Mastery
Fluently add, subtract, multiply, and divide decimals	CC.2.1.6.E.2	Choose an item. September
Fluently divide whole numbers and decimals	CC.2.1.6.E.2	September Choose an item.
Multiply fractions	CC.2.1.6.E.1	Choose an item. September
Understand division with fractions	CC.2.1.6.E.2	Choose an item. September
Divide fractions by fractions	CC.2.1.6.E.1	September Choose an item.
Divide mixed numbers	CC.2.1.6.E.1	Choose an item. September
Solve problems with rational numbers	CC.2.1.6.E.1	Choose an item. September
Understand integers	CC.2.1.6.E.4	September October
Represent rational numbers on a number line	CC.2.1.6.E.4	September October
Absolute values of rational numbers	CC.2.1.6.E.4	September October
Represent rational numbers on the coordinate plane	CC.2.1.6.E.4	September October
Find distances on the coordinate plane	CC.2.1.6.E.4	September October
Represent polygons on the coordinate plane	CC.2.1.6.E.4, CC.2.3.6.A.1	September October
Understand and represent exponents	CC.2.2.6.B.1	October November
Find GCF and LCM	CC.2.1.6.E.3	October November
Write and evaluate numerical expressions	CC.2.2.6.B.1	November October
Write algebraic expressions	CC.2.2.6.B.1	October November
Evaluate algebraic expression	CC.2.2.6.B.1	October November
Generate equivalent expressions	CC.2.2.6.B.1	October November
Simplify algebraic expressions	CC.2.2.6.B.1	October November
Understand equations and solutions	CC.2.2.6.B.2	November Choose an item.
Apply properties of equality	CC.2.2.6.B.2	November Choose an item.
Write and solve addition and subtraction equations	CC.2.2.6.B.2	November Choose an item.

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Write and solve multiplication and division equations	CC.2.2.6.B.2	November Choose an item.
Write and solve equations with rational numbers	CC.2.2.6.B.2	November December
Understand and write inequalities	CC.2.2.6.B.2	November December
Solve inequalities	CC.2.2.6.B.2	November December
Understand independent and dependent variables	CC.2.2.6.B.3	November December
Use patterns to write and solve equations	CC.2.2.6.B.3	November December
Relate tables, graphs, and equations	CC.2.2.6.B.3	November December
Understand ratios	CC.2.1.6.D.1	January Choose an item.
Generate equivalent ratios	CC.2.1.6.D.1	January Choose an item.
Compare ratios	CC.2.1.6.D.1	January Choose an item.
Represent and graph ratios	CC.2.1.6.D.1	January Choose an item.
Understand rates and unit rates	CC.2.1.6.D.1	January Choose an item.
Ratio reasoning; convert customary units	CC.2.1.6.D.1	January Choose an item.
Ratio reasoning; convert metric units	CC.2.1.6.D.1	January Choose an item.
Relate customary and metric units	CC.2.1.6.D.1	January Choose an item.
Understand Percent	CC.2.1.6.D.1	January February
Relate fractions, decimals, and percents	CC.2.1.6.D.1	January February
Represent percents greater than 100 and less than 1	CC.2.1.6.D.1	January February
Estimate to find percent	CC.2.1.6.D.1	January February
Find percent of a number	CC.2.1.6.D.1	January February
Find the whole given a part and the percentage	CC.2.1.6.D.1	January February
Find area of parallelograms and rhombuses	CC.2.3.6.A.1	February Choose an item.
Solve triangle area problems	CC.2.3.6.A.1	February Choose an item.
Find areas of trapezoids and kites	CC.2.3.6.A.1	February Choose an item.
Find area of polygons	CC.2.3.6.A.1	February Choose an item.
Represent solid figures using nets	CC.2.3.6.A.1	February Choose an item.

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Performance Indicator	PA Core Standard and/or Eligible Content	Month Taught and Assessed for Mastery
Find Surface areas of prisms	CC.2.3.6.A.1	February Choose an item.
Find surface areas of pyramids	CC.2.3.6.A.1	February Choose an item.
Find volume with fractional edge lengths	CC.2.3.6.A.1	February Choose an item.
Recognize statistical questions	CC.2.4.6.B.1	March Choose an item.
Summarize data using mean, median, mode, range	CC.2.4.6.B.1	March Choose an item.
Display data in box plots	CC.2.4.6.B.1	March Choose an item.
Display data in frequency tables and histograms	CC.2.4.6.B.1	March Choose an item.
Summarize data using measures of variability	CC.2.4.6.B.1	Choose an item. March Choose an item.
Choose appropriate statistical measures	CC.2.4.6.B.1	March
Summarize data distribution	CC.2.4.6.B.1	March Choose an item.

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: suggested but not limited to: bell-ringers, exit ticket, cooperative learning, observations, centers, written work, oral response, self-evaluation, peer evaluation, quizzes, worksheets, and projects.

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: suggested but not limited to: performance assessments, chapter/unit tests, quizzes, and projects