

**WARREN COUNTY SCHOOL DISTRICT**

PLANNED INSTRUCTION

**COURSE DESCRIPTION**

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

**Course Description:** In 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:** None

**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  
**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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PLANNED INSTRUCTION

**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> |
|---|---|--|
| Fluently add, subtract, multiply, and divide decimals | CC.2.1.6.E.2                                    | Choose an item.<br>September                 |
| Fluently divide whole numbers and decimals            | CC.2.1.6.E.2                                    | September<br>Choose an item.                 |
| Multiply fractions                                    | CC.2.1.6.E.1                                    | Choose an item.<br>September                 |
| Understand division with fractions                    | CC.2.1.6.E.2                                    | Choose an item.<br>September                 |
| Divide fractions by fractions                         | CC.2.1.6.E.1                                    | September<br>Choose an item.                 |
| Divide mixed numbers                                  | CC.2.1.6.E.1                                    | Choose an item.<br>September                 |
| Solve problems with rational numbers                  | CC.2.1.6.E.1                                    | Choose an item.<br>September                 |
| Understand integers                                   | CC2.1.6.E.4                                     | September<br>October                         |
| Represent rational numbers on a number line           | CC2.1.6.E.4                                     | September<br>October                         |
| Absolute values of rational numbers                   | CC2.1.6.E.4                                     | September<br>October                         |
| Represent rational numbers on the coordinate plane    | CC2.1.6.E.4                                     | September<br>October                         |
| Find distances on the coordinate plane                | CC2.1.6.E.4                                     | September<br>October                         |
| Represent polygons on the coordinate plane            | CC2.1.6.E.4,<br>CC2.3.6.A.1                     | September<br>October                         |
| Understand and represent exponents                    | CC.2.2.6.B.1                                    | October<br>November                          |
| Find GCF and LCM                                      | CC.2.1.6.E.3                                    | October<br>November                          |
| Write and evaluate numerical expressions              | CC.2.2.6.B.1                                    | November<br>October                          |
| Write algebraic expressions                           | CC.2.2.6.B.1                                    | October<br>November                          |
| Evaluate algebraic expression                         | CC.2.2.6.B.1                                    | October<br>November                          |
| Generate equivalent expressions                       | CC.2.2.6.B.1                                    | October<br>November                          |
| Simplify algebraic expressions                        | CC.2.2.6.B.1                                    | October<br>November                          |
| Understand equations and solutions                    | CC.2.2.6.B.2                                    | November<br>Choose an item.                  |
| Apply properties of equality                          | CC.2.2.6.B.2                                    | November<br>Choose an item.                  |
| Write and solve addition and subtraction equations    | CC.2.2.6.B.2                                    | November<br>Choose an item.                  |

**WARREN COUNTY SCHOOL DISTRICT**

PLANNED INSTRUCTION

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

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| Find Surface areas of prisms                    | CC.2.3.6.A.1 | February<br>Choose an item.                 |
| Find surface areas of pyramids                  | CC.2.3.6.A.1 | February<br>Choose an item.                 |
| Find volume with fractional edge lengths        | CC.2.3.6.A.1 | February<br>Choose an item.                 |
| Recognize statistical questions                 | CC.2.4.6.B.1 | March<br>Choose an item.                    |
| Summarize data using mean, median, mode, range  | CC.2.4.6.B.1 | March<br>Choose an item.                    |
| Display data in box plots                       | CC.2.4.6.B.1 | March<br>Choose an item.                    |
| Display data in frequency tables and histograms | CC.2.4.6.B.1 | March<br>Choose an item.                    |
| Summarize data using measures of variability    | CC.2.4.6.B.1 | Choose an item.<br>March<br>Choose an item. |
| Choose appropriate statistical measures         | CC.2.4.6.B.1 | March                                       |
| Summarize data distribution                     | CC.2.4.6.B.1 | March<br>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