

WARREN COUNTY SCHOOL DISTRICT

PLANNED INSTRUCTION

COURSE DESCRIPTION

Course Title: Mathematics 5

Course Number: 08523

Course Description: In Grade 5, instructional time should focus on eleven critical areas: (1) write and interpret numerical expressions; (2) analyze patterns and relationships; (3) understand the place value system; (4) perform operations with multi-digit whole numbers and with decimals to hundredths; (5) use equivalent fractions as a strategy to add and subtract fractions; (6) apply and extend previous understandings of multiplication and division to multiply and divide fractions; (7) convert like measurement units within a given measurement system; (8) Represent and interpret data; (9) geometric measurement: understand concepts of volume and relate volume to multiplication and to addition; (10) graph points on the coordinate plane to solve real world and mathematical problems; and (11) classify two-dimensional figures into categories based on their properties.

Suggested Grade Level: Grade 5

Length of Course: Two Semesters

Units of Credit: None

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

CSPG 70 Grades 4-8

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: 02035

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: enVision Math 5th Grade
Publisher: Pearson
ISBN #: 9780768573466
Copyright Date: 2020
WCSD Board Approval Date: 3/8/2021

Supplemental Materials:

Curriculum Document

WCSD Board Approval:

Date Finalized: 1/18/2021
Date Approved: 3/8/2021
Implementation Year: 2021-2022

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 |
|---|---|--|
| Apply place value to show an understanding of operations and rounding as they pertain to whole numbers and decimal | CC.2.1.5.B.1 | September |
| Demonstrate understanding of place-value of whole numbers and decimals. | M05.A-T.1.1 | September |
| Compare quantities or magnitudes of numbers. | M05.A-T.1.1 | September |
| Demonstrate an understanding that in a multi-digit number. | M05.A-T.1.1.1 | September |
| Explain patterns in the number of zeros of the product when multiplying a number by powers of 10. | M05.A-T.1.1.2 | September |
| Explain patterns in the placement of the decimal point when a decimal is multiplied or divided by a power of 10 | M05.A-T.1.1.2 | September |
| Use whole-number exponents to denote powers of 10. | M05.A-T.1.1.2 | September October |
| Read and write decimals to thousandths using base-ten numerals, word form, and expanded form | M05.A-T.1.1.3 | September |
| Compare two decimals to thousandths based on meanings of the digits in each place using $>$, $=$, and $<$ symbols. | M05.A-T.1.1.4 | September |
| Round decimals to any place (limit rounding to ones, tenths, hundredths, or thousandths place). | M05.A-T.1.1.5 | September |
| Extend an understanding of operations with whole numbers to perform operations including decimals. | CC.2.1.5.B.2 | October December |
| Perform operations with multi-digit whole numbers and with decimals to hundredths | M05.A-T.2 | October December |
| Use whole numbers and decimals to compute accurately. | M05.A-T.2.1 | October December |
| Multiply multi-digit whole numbers. | M05.A-T.2.1.1 | November |
| Find whole-number quotients of whole numbers with up to four-digit dividends and two-digit divisors. | M05.A-T.2.1.2 | November |
| Add, subtract, multiply, and divide decimals to hundredths (no divisors with decimals). | M05.A-T.2.1.3 | November |
| Use the understanding of equivalency to add and subtract fractions. | CC.2.1.5.C.1 | December January |
| Use equivalent fractions as a strategy to add and subtract fractions. | M05.A-F.1 | December January |
| Solve addition and subtraction problems involving fractions. | M05.A-F.1.1 | December February |
| Add and subtract fractions with unlike denominators. | M05.A-F.1.1.1 | January February |

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| Performance Indicator | PA Core Standard and/or Eligible Content | Month Taught and Assessed for Mastery |
|---|---|--|
| Apply and extend previous understandings of multiplication and division to multiply and divide fractions. | CC.2.1.5.C.2 | January February |
| Solve multiplication and division problems involving fractions and whole numbers. | M05.A-F.2.1 | January February |
| Solve word problems involving division of whole numbers leading to answers in the form of fraction | M05.A-F.2.1.1 | February |
| Multiply a fraction (including mixed numbers) by a fraction. | M05.A-F.2.1.2 | January February |
| Demonstrate an understanding of multiplication as scaling (resizing). | M05.A-F.2.1.3 | March |
| Divide unit fractions by whole numbers and whole numbers by unit fractions. | M05.A-F.2.1.4 | January February |
| Interpret and evaluate numerical expressions using order of operations. | CC.2.2.5.A.1 | March |
| Analyze and complete calculations by applying the order of operations. | M05.B-O.1.1 | March |
| Use multiple grouping symbols (parentheses, brackets, or braces) in numerical expressions and evaluate expressions containing these symbols. | M05.B-O.1.1.1 | March |
| Write simple expressions that model calculations with numbers and interpret numerical expressions without evaluating them. | M05.B-O.1.1.2 | March |
| Analyze patterns and relationships using two rules. | CC.2.2.5.A.4 | April |
| Create, extend, and analyze patterns. | M05.B-O.2.1 | April |
| Generate two numerical patterns using two given rules. | M05.B-O.2.1.1 | April |
| Identify apparent relationships between corresponding terms of two patterns with the same starting numbers that follow different rule | M05.B-O.2.1.2 | April |
| Graph points in the first quadrant on the coordinate plane and interpret these points when solving real world and mathematical problems. | CC.2.3.5.A.1 | April |
| Identify parts of a coordinate grid. | M05.C-G.1.1 | April |
| Interpret points given an ordered pair | M05.C-G.1.1 | April |
| Identify parts of the coordinate plane (x-axis, y-axis, and the origin) and the ordered pair (x-coordinate and y-coordinate). | M05.C-G.1.1.1 | April |
| Represent real-world and mathematical problems by plotting points in quadrant I of the coordinate plane. | M05.C-G.1.1.2 | April |

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|--|---|--|
| Interpret coordinate values of points in the context of the situation. | M05.C-G.1.1.2 | April |
| Classify two-dimensional figures into categories based on an understanding of their properties. | CC.2.3.5.A.2 | April May |
| Use basic properties to classify two-dimensional figures. | M05.C-G.2.1 | April May |
| Classify two-dimensional figures in a hierarchy based on properties. | M05.C-G.2.1 | May May |
| Solve problems using conversions within a given measurement system | CC.2.4.5.A.1 | March |
| Solve problems using simple conversions. | M05.D-M.1.1 | March |
| Convert between different-sized measurement units within a given measurement system. | M05.D-M.1.1.1 | March |
| Represent and interpret data using appropriate scale. | CC.2.4.5.A.2 | March |
| Solve problems involving computation of fractions using information provided in a line plot. | CC.2.4.5.A.4 | March |
| Organize, display, and answer questions based on data. | M05.D-M.2.1 | March |
| Solve problems involving computation of fractions by using information presented in line plots. | M05.D-M.2.1.1 | March |
| Display and interpret data shown in tallies, tables, charts, pictographs, bar graphs, and line graphs, and use a title, appropriate scale, and labels. | M05.D-M.2.1.2 | March |
| Apply concepts of volume to solve problems and relate volume to multiplication and to addition | CC.2.4.5.A.5 | February March |
| Understand concepts of volume and relate volume to multiplication and to addition | M05.D-M.3 | February March |
| Use, describe, and develop procedures to solve problems involving volume. | M05.D-M.3.1 | February March |
| Apply the formulas for rectangular prisms to find volumes of right rectangular prisms with whole-number edge lengths in the context of solving real-world and mathematical problems. | M05.D-M.3.1.1 | February March |
| Find volumes of solid figures composed of two non-overlapping right rectangular prisms. | M05.D-M.3.1.2 | February March |

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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: center activities, cooperative learning activities, games, online activities, oral responses, teacher observations, and worksheets.

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: performance assessments, projects, tests, and quizzes.