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

State Course Code: 02035

To find the State Course Code, go to <u>State Course Code</u>, 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 5 th 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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Performance Indicator	PA Core Standard and/or Eligible Content	Month Taught and Assessed for Mastery
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.