PLANNED INSTRUCTION

COURSE	DESCR	IPTION
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Course Title: Mathematics 2

Course Number: 08322 Course Prerequisites: None

Course Description: In Grade 2, instructional time focuses on four critical areas: (1) extending

understanding of base-ten notation; (2) building fluency with addition and subtraction; (3) using standard units of measure; and (4) describing and analyzing

shapes.

Suggested Grade Level: Grade 2

Length of Course: Two Semesters

Units of Credit: None

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

CSPG 69 Grades PK-4 or Elementary

To find the CSPG information, go to <a>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.

 \boxtimes F – Final Average \boxtimes MP – Marking Period \square 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: 02032

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 choose 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 2nd Grade

Publisher: Pearson

ISBN #: 978-0-76-857343-5

Copyright Date: 2020 **WCSD Board Approval Date:** 3/8/2021

Supplemental Materials: Manipulatives, ST Math, flashcards, mCLASS

Curriculum Document

WCSD Board Approval:

Date Finalized: 7-/20/2022

Date Approved: Click or tap to enter a date.

Implementation Year: 2022-2023

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 AND CONCEPTS

Marking Period 1

Fluently Add and Subtract within twenty Work with Equal Groups Add Within 100 Using Strategies Fluently Add Within 100

Marking Period 2

Subtract Within 100 Using Strategies Fluently Subtract Within 100

Marking Period 3

More Solving Problems Involving Addition and Subtraction Work with Time and Money Numbers to 1,000 Add within 1,000 Using Models and Strategies

Marking Period 4

Subtract within 1,000 using models and strategies Measuring Length Shapes and Their Attributes More Addition, Subtraction and Length Graphs and Data

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Standards/Eligible Content and Skills

Performance Indicator	PA Core Standard and/or Eligible Content	Marking Period Taught
Use place-value concepts to represent amounts of tens and ones and to compare three-digit numbers.	2.1 2.B.1	MP3
Understand that the three digits of a three-digit number represent amounts of hundreds, tens, and ones.	2.1 2.B.1	MP3
Compare two three-digit numbers based on meanings of the hundreds, tens, and ones digits, using >, =, and < symbols to record the results of comparisons.	2.1 2.B.1	MP3
Use place value concepts to read, write, and skip-count to 1,000.	2.1 2.B.2	MP3
Count within 1,000; skip-count by 5s, 10s, and 100s.	2.1 2.B.2	MP3
Read and write numbers to 1,000 using base-ten numerals, number names, and expanded form.	2.1 2.B.2	MP3
Use place-value understanding and properties of operations to add and subtract within 1,000.	2.1 2.B.3	MP3
Use place-value and properties of operations to add and subtract.	2.1 2.B.3	MP3
Add up to four two-digit numbers using strategies based on place-value and properties of operations.	2.1 2.B.3	MP3
Add and subtract within 1,000 (understanding that in adding or subtracting three-digit numbers, one adds or subtracts hundreds and hundreds, tens and tens, ones and ones, and sometimes it is necessary to compose or decompose tens or hundreds).	2.1 2.B.3	MP3
Explain why addition and subtraction strategies work, using place-value and the properties of operations.	2.1 2.B.3	MP3
Mentally add 10 or 100 to a given number from 100–900, and mentally subtract 10 or 100 from a given number from 100–900.	2.1 2.B.3	MP3
Represent and solve problems involving addition and subtraction within 100.	2.2 2.A.1	MP2
Use addition and subtraction within 100 to solve one- and two-step word problems by using drawings and equations with a symbol for the unknown number to represent the problem.	2.2 2.A.1	MP2
Solve word problems that call for addition of three whole numbers whose sum is less than or equal to 20.	2.2 2.A.1	MP1
Add and subtract within 20 using various strategies (e.g., counting on, making ten, decomposing a number leading to a ten, using the relationship between addition and subtraction, and creating equivalent but easier or known sums).	2.2 2.A.1	MP1
Apply properties of operations as strategies to add and subtract (e.g., commutative property of addition, associative property of addition).	2.2 2.A.1	MP1

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Make sense of a word problem and understand what it is asking for.	2.2 2.A.1	MP1
Understand subtraction as an unknown addend problem (e.g., subtract	2.2 2.A.1	MP1
10 – 8 by finding the number that makes 10 when added to 8).		
Look for patterns. (e.g., making ten, fact families, doubles).	2.2 2.A.1	MP1
Practice mathematical communication skills.	2.2 2.A.1	MP1
Use mental strategies to add and subtract within 20.	2.2 2.A.2	MP1
Fluently add and subtract within 20 using mental strategies.	2.2 2.A.2	MP1
Realize that doing mathematics involves solving problems and discussing	2.2 2.A.2	MP1
how the problems were solved.		
Explain the meaning of a problem and look for ways to solve it.	2.2 2.A.2	MP1
Practice mathematical communication skills.	2.2 2.A.2	MP1
Work with equal groups of objects to gain foundations for	2.2 2.A.3	MP1
multiplication.		
Determine whether a group of objects (up to 20) has an odd or even	2.2 2.A.3	MP1
number of members.		
Write an equation to express an even number as a sum of two equal	2.2 2.A.3	MP1
addends.		
Use addition to find the total number of objects arranged in rectangular	2.2 2.A.3	MP1
arrays with up to five rows and up to five columns; write an equation to		
express the total as a sum of equal addends.		
Identify and describe the rule for a pattern.	2.2 2.A.3	MP1
Use a rule to extend a pattern.	2.2 2.A.3	MP1
Understand multiplication as repeated addition and arrays.	2.2 2.A.3	MP1
Use concrete objects and pictures to help solve problems.	2.2 2.A.3	MP1
Realize that doing mathematics involves solving problems and discussing	2.2 2.A.3	MP1
the solutions.		
Use concrete objects or pictures to help conceptualize and solve	2.2 2.A.3	MP1
problems.		
Decide to solve a problem by drawing a picture rather than writing an	2.2 2.A.3	MP1
equation.		
Analyze and draw two- and three-dimensional shapes having specified	2.3 2.A.1	MP4
attributes.		
Recognize and draw shapes having specified attributes.	2.3 2.A.1	MP4
Identify triangles, quadrilaterals, pentagons, hexagons, and cubes.	2.3 2.A.1	MP4
Describe, classify, and sort plane and solid geometric shapes according to	2.3 2.A.1	MP4
the number and shape of faces and the number of sides, edges, and/or		
vertices.		
Recognize and represent geometric shapes and solids in structures in the	2.3 2.A.1	MP4
environment.		
Manipulate, draw, construct, and represent (e.g., on a geoboard) two-	2.3 2.A.1	MP4
dimensional shapes.	22211	145
Name characteristics of two-dimensional shapes and three-dimensional	2.3 2.A.1	MP4
figures.	2224	1454
Describe the similarities and differences between two two-dimensional	2.3 2.A.1	MP4
shapes or two three-dimensional figures.		

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quarters, and thirds. Partition circles, squares, and rectangles into two, three, or four equal shares. Recognize that equal shares of identical wholes need not have the same shape. Match the fraction to the corresponding model (e.g., concrete and/or pictorially). Represent a given fraction using drawings or concrete materials. Measure and estimate lengths in standard units using appropriate tools. Measure the length of an object by selecting and using appropriate tools (e.g., rulers, yardsticks, meter sticks, measuring tapes). Measure the same length with different sized units and note the measurement made with the smaller unit is more than the measurement made with the larger unit and vice versa. Estimate lengths using units of inches, feet, centimeters, and meters. Estimate lengths using units of inches, feet, centimeters, and meters. Practice mathematical communication skills. Select the appropriate tool. Tell and write time to the nearest five minutes using both analog and digital clocks. Tell and write time to the nearest five minutes using both analog and digital clocks. Tell and write time from analog and digital clocks to the nearest five minutes. Develop mathematical communication skills. Solve problems and make change using coins and paper currency with appropriate symbols. Solve word problems involving dollar bills, quarters, dimes, nickels, and pennies, using \$ and c symbols appropriately. Use the context of money to find sums and differences less than or equal to 100 (e.g., using the numbers 0 to 100). Add and subtract to solve one- and two-step word problems involving 2.4 2.A.3 MP3			
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Match the fraction to the corresponding model (e.g., concrete and/or pictorially). Represent a given fraction using drawings or concrete materials. Represent a given fraction using drawings or concrete materials. Measure and estimate lengths in standard units using appropriate tools. (e.g., rulers, yardsticks, meter sticks, measuring tapes). Measure the same length with different sized units and note the measurement made with the smaller unit is more than the measurement made with the larger unit and vice versa. Estimate lengths using units of inches, feet, centimeters, and meters. Estimate lengths difference in terms of a standard-length unit. Practice mathematical communication skills. Select the appropriate tool. Tell and write time to the nearest five minutes using both analog and digital clocks. Tell and write time from analog and digital clocks to the nearest five minutes. Develop mathematical communication skills. Solve problems and make change using coins and paper currency with appropriate symbols. Solve word problems involving dollar bills, quarters, dimes, nickels, and pennies, using \$ and \$ c symbols appropriately. Use the context of money to find sums and differences less than or equal to 2.4 2.A.3 MP3 to 100 (e.g., using the numbers 0 to 100). Add and subtract to solve one- and two-step word problems involving 2.4 2.A.3 MP3	•	2.3 2.A.2	MP4
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Use the context of money to find sums and differences less than or equal to 100 (e.g., using the numbers 0 to 100). Add and subtract to solve one- and two-step word problems involving 2.4 2.A.3 MP3	,	2.4 2.A.3	MP3
Add and subtract to solve one- and two-step word problems involving 2.4 2.A.3 MP3	Use the context of money to find sums and differences less than or equal	2.4 2.A.3	MP3
money situations (e.g., adding to, taking from, putting together, taking apart, comparing).	Add and subtract to solve one- and two-step word problems involving money situations (e.g., adding to, taking from, putting together, taking	2.4 2.A.3	MP3
Use drawings and equations with a symbol for the unknown number to represent the problem. 2.4 2.A.3 MP3	Use drawings and equations with a symbol for the unknown number to	2.4 2.A.3	MP3
Learn the relationships between the values of a penny, nickel, dime, quarter, and dollar bill.	Learn the relationships between the values of a penny, nickel, dime,	2.4 2.A.3	MP3
Practice mathematical communication skills. 2.4 2.A.3 MP3		2.4 2.A.3	MP3
Decide to solve a problem by drawing a picture rather than writing an equation. 2.4 2.A.3 MP3		2.4 2.A.3	MP3
Represent and interpret data using line plots, picture graphs, and bar graphs. MP4 MP4	Represent and interpret data using line plots, picture graphs, and bar	2.4 2.A.4	MP4
Make a line plot to show measurement data of the lengths of several 2.4 2.A.4 MP4 objects to the nearest whole-number unit.	Make a line plot to show measurement data of the lengths of several	2.4 2.A.4	MP4

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Draw a picture graph and a bar graph (with single-unit scale) to represent a data set with up to four categories.	2.4 2.A.4	MP4
Solve simple put-together, take apart, and compare problems using	2.4 2.A.4	MP4
information presented in a graph.		
Describe features of data such as range, mode, and median.	2.4 2.A.4	MP4
Practice mathematical communication skills.	2.4 2.A.4	MP4
Decide when certain graphs might be better suited than others.	2.4 2.A.4	MP4
Extend the concepts of addition and subtraction to problems involving	2.4 2.A.6	MP4
length.		
Measure the length of an object by selecting and using appropriate tools	2.4 2.A.6	MP4
(e.g., rulers, yardsticks, meter sticks, measuring tapes).		
Estimate lengths using units of inches, feet, centimeters, and meters.	2.4 2.A.6	MP4
Measure to determine how much longer one object is than another,	2.4 2.A.6	MP4
expressing the length difference in terms of a standard-length unit.		
Draw a picture graph and a bar graph (with single-unit scale) to represent	2.4 2.A.6	MP4
a data set with up to four categories.		
Represent whole numbers as lengths from 0 on a number line diagram	2.4 2.A.6	MP4
with equally spaced points corresponding to the numbers 0, 1, and 2, and		
represent whole-number sums and differences within 100 on a number		
line diagram.		

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ASSESSMENTS

PDE 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, writing, 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, writing, tests, and quizzes.