

WARREN COUNTY SCHOOL DISTRICT
PLANNED INSTRUCTION

COURSE DESCRIPTION

Course Title: Functional Math Grade 2

Course Number: 05127

Course Prerequisites: None

Course Description:

Functional Math Grade 2 instructional time should focus 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: 2

Length of Course: One Semester X Two Semesters Other

(Describe)

Units of Credit: None (Insert NONE if appropriate.)

PDE Certification and Staffing Policies and Guidelines (CSPG) Required Teacher Certification(s)

(Insert certificate title and CSPG#) CSPG 61 Special Education PK-12

Certification verified by WCSD Human Resources Department:

 X Yes No

Board Approved Textbooks, Software, Materials:

Title:

Publisher:

ISBN #:

Copyright Date:

Date of WCSD Board Approval:

BOARD APPROVAL:

Date Written: 1/12/2021

Date Approved: 2/8/2021

Implementation Year: 2020-2021

Course Standards

PA Core Standards: (List by Number and Description)

2.1 Numbers and Operations A) Counting & Cardinality B) Numbers and Operations in Base Ten

2.2 Algebraic Concepts A) Operations and Algebraic Thinking

2.3 Geometry A) Geometry

2.4 Measurement, Data, and Probability A) Measurement and Data

WCSD Academic Standards: None

Industry or Other Standards: None

SPECIAL EDUCATION AND GIFTED REQUIREMENTS

The teacher shall make appropriate modifications to instruction and assessment based on a student's Individual Education Plan (IEP) or Gifted Individual Education Plan (GIEP).

SPECIFIC EDUCATIONAL OBJECTIVES/CORRESPONDING STANDARDS AND ELIGIBLE CONTENT WHERE APPLICABLE

(List Objectives, PA Standards #'s, Other Standards (see samples at end))

PA Standard: **2.1 Numbers and Operations-** Make sense of problems and persevere in solving them. Reason abstractly and quantitatively. Construct viable arguments and critique the reasoning of others. Model with mathematics. Use appropriate tools strategically. Attend to precision. Look for and make use of structure. Look for and express regularity in repeated reasoning

Second Grade

Eligible Content	Performance Indicators
CC.2.1.2.B.1	Use place-value concepts to represent amounts of tens and ones and to compare three digit numbers
CC.2.1.2.B.2	Use place-value concepts to read, write, and skip count to 1000.
CC.2.1.2.B.3	Use place-value understanding and properties of operations to add and subtract within 1000.

PA Standard -**2.2 Algebraic Concepts-** Make sense of problems and persevere in solving them. Reason abstractly and quantitatively. Construct viable arguments and critique the reasoning of others. Model with mathematics.
Use appropriate tools strategically. Attend to precision. Look for and make use of structure. Look for and express regularity in repeated reasoning

Second Grade

Eligible Content	Performance Indicators
CC.2.2.2.A.1	Represent and solve problems involving addition and subtraction within 100.
CC.2.2.2.A.2	Use mental strategies to add and subtract within 20.
CC.2.2.2.A.3	Work with equal groups of objects to gain foundations for multiplication

PA Standard: **2.3 Geometry** - Make sense of problems and persevere in solving them. Reason abstractly and quantitatively. Construct viable arguments and critique the reasoning of others. Model with mathematics.
Use appropriate tools strategically. Attend to precision. Look for and make use of structure. Look for and express regularity in repeated reasoning.

Second Grade

Eligible Content	Performance Indicators
CC.2.3.2.A.1	Analyze and draw two and three-dimensional shapes having specified attributes.
CC.2.3.2.A.2	Use the understanding of fractions to partition shapes into halves, quarters, and thirds.

PA Standard: **2.4 Measurement, Data, and Probability-** Make sense of problems and persevere in solving them. Reason abstractly and quantitatively. Construct viable arguments and critique the reasoning of others. Model with mathematics. Use appropriate tools strategically. Attend to precision. Look for and make use of structure. Look for and express regularity in repeated reasoning.

Second Grade

Eligible Content	Performance Indicators
CC.2.4.2.A.1	Measure and estimate lengths in standard units using appropriate tools.
CC.2.4.2.A.2	Tell and write time to the nearest five minutes using both analog and digital clocks.
CC.2.4.2.A.3	Solve problems and make change using coins and paper currency with appropriate symbols.
CC.2.4.2.A.4	Represent and interpret data using line plots, picture graphs, and bar graphs.
CC.2.4.2.A.6	Extend the concepts of addition and subtraction to problems involving length.

ASSESSMENTS

PSSA Assessment Anchors Addressed: The teacher must be knowledgeable of the PDE Assessment Anchors and/or Eligible Content and incorporate them into this planned instruction. Current assessment anchors can be found at pde@state.pa.us.

PASA preparation –PA eligible content to be addressed- The teacher must be knowledgeable of the PDE Assessment Anchors and/or Alternate Eligible Content and incorporate them into this planned instruction. Current assessment anchors can be found at pde@state.pa.us.

Formative Assessments: The teacher will develop and use standards-based assessments throughout the course.

Portfolio Assessment: _____ Yes X No

District-wide Final Examination Required: _____ Yes X No

Course Challenge Assessment (Describe): None

REQUIRED COURSE SEQUENCE AND TIMELINE

(Content must be tied to objectives)

Content Sequence	Dates
Sept – Position and Location: Sorting and Classifying: Counting, Reading, and Writing Numbers 0-5 Comparing Numbers 0-5 Ordering Numbers 0-5 Ordinal Numbers through Fifth Counting, Reading, and Writing Numbers 6-10	
October- Comparing Numbers 0-10 Ordering Numbers 0-10 Ordinal Numbers through Tenth Patterns: Counting, Reading, and Writing Numbers 11-20:	
November- Skip Counting by Twos and Fives: Counting Numbers Through 31 Estimation Comparing Numbers through 31 Patterns:	
December/January- Counting Groups of 10: Numbers Through 100: Skip Counting by Twos, Fives, and Tens: 6 Solid Figures Telling time to hour and half-hour	
February- Comparing Solid Figures Flat Surfaces on Solid Figures Squares and Other Rectangles Hexagon Combining and Separating Shapes Problem Solving involving Equal Shares: Comparing and Ordering Size	
March- Comparing by Length	

Ordering by Length

Problem Solving involving Areas of Shapes

Comparing and Ordering by Capacity

Comparing and Ordering by Weight

Ways to make 4 and 5

April/May-

Ways to make 6 and 7

Ways to make 8 and 9

Ways to make 10

1 more and 2 more

1 fewer and 2 fewer

Joining Groups

Drawing Pictures to problem solve

Using Addition Sign

Finding Sums

Addition Sentences

Adding Pennies

Separating

Take Away

Comparing

Using Subtraction Sign

Finding the Difference

Subtraction Sentences

Subtracting Pennies

Problem Solving by using Addition or Subtraction

WCSD STUDENT DATA SYSTEM INFORMATION

1. Is there a required final examination? _____ Yes x No
2. Does this course issue a mark/grade for the report card? x Yes _____ No
3. Does this course issue a Pass/Fail mark? _____ Yes x No
4. Is the course mark/grade part of the GPA calculation? _____ Yes x No
5. Is the course eligible for Honor Roll calculation? _____ Yes x No
6. What is the academic weight of the course?
 x No weight/Non credit _____ Standard weight
_____ Enhanced weight (Describe)