

WARREN COUNTY SCHOOL DISTRICT
PLANNED INSTRUCTION

COURSE DESCRIPTION

Course Title: Functional Math Grade 1

Course Number: 05120

Course Prerequisites: None

Course Description:

In Functional Math Grade 1, instructional time should focus on four critical areas: (1) developing understanding of addition, subtraction, and strategies for addition and subtraction within 20; (2) developing understanding of whole number relationships and place value, including grouping in tens and ones; (3) developing understanding of linear measurement and measuring lengths as repeating length units; and (4) reasoning about attributes of, and composing and decomposing geometric shapes.

Suggested Grade Level: 1

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:** 1/17/2021**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.

First Grade

Eligible Content	Performance Indicators
CC.2.1.1.B.1	Extend the counting sequence to read and write numerals to represent objects.
CC.2.1.1.B.2	Use place-value concepts to represent amounts of tens and ones and to compare two digit numbers.
CC.2.1.1.B.3	Use place-value concepts and properties of operations to add and subtract within 100.

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

First Grade

Eligible Content	Performance Indicators
CC.2.2.1.A.1	Represent and solve problems involving addition and subtraction within 20.
CC.2.2.1.A.2	Understand and apply properties of operations and the relationship between addition and subtraction.

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.

First Grade

Eligible Content	Performance Indicators
CC.2.3.1.A.1	Compose and distinguish between two- and three dimensional shapes based on their attributes.
CC.2.3.1.A.2	Use the understanding of fractions to partition shapes into halves and quarters.

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.

First Grade

Eligible Content	Performance Indicators
CC.2.4.1.A.1	Order lengths and measure them both indirectly and by repeating length units.
CC.2.4.1.A.2	Tell and write time to the nearest half hour using both analog and digital clocks.
CC.2.4.1.A.4	Represent and interpret data using tables/charts.

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)