

WARREN COUNTY SCHOOL DISTRICT
PLANNED INSTRUCTION

COURSE DESCRIPTION

Course Title: Functional Math K

Course Number: 05114

Course Prerequisites: None

Course Description:

Functional Math K instructional time should focus on two critical areas: (1) representing, relating, and operating on whole numbers, initially with sets of objects; (2) describing shapes and space. More learning time in Kindergarten should be devoted to numbers than to other topics.

Suggested Grade Level: Kindergarten

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

Kindergarten

Eligible Content	Performance Indicators
CC.2.1.K.A.1	Know number names and write and recite the count sequence.
CC.2.1.K.A.2	Apply one-to-one correspondence to count the number of objects.
CC.2.1.K.A.3	Apply the concept of magnitude to compare numbers and quantities.
CC.2.1.K.B.1	Use place value to compose and decompose numbers within 19.

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

Kindergarten

Eligible Content	Performance Indicators
CC.2.2.K.A.1	Extend the concepts of putting together and taking apart to add and subtract within 10.

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.

Kindergarten

Eligible Content	Performance Indicators
CC.2.3.K.A.1	Identify and describe two- and three dimensional shapes
CC.2.3.K.A.2	Analyze, compare, create, and compose two- and three-dimensional shapes

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.

Kindergarten

Eligible Content	Performance Indicators
CC.2.4.K.A.1	Describe and compare attributes of length, area, weight, and capacity of everyday objects.

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