

WARREN COUNTY SCHOOL DISTRICT
PLANNED INSTRUCTION

COURSE DESCRIPTION

Course Title: Functional Math 12

Course Number: 05212

Course Prerequisites: None

Course Description:

Functional Mathematics 12 is a continuation of mathematic concepts which are an integral part of basic mathematic skills. This course expands on the foundation of basic math skills of addition, subtraction, multiplication, and division. It will also expand to incorporate utilization of money, components of fractions, time, graphing, measurement, patterns, geometric shapes, place value, counting numbers, word problems, estimation/rounding, and being able to use a calculator. Using the Pennsylvania Common Core Standards and the Pennsylvania Alternative Standards as a guide, the course will prepare students for the Pennsylvania Alternate State Assessments. This course is limited to teacher recommendation based on specific student need.

Suggested Grade Level: 12

Length of Course: One Semester X Two Semesters Other

Units of Credit: 1 (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:** 1/17/21**Date Approved:** 2/8/2021**Implementation Year:** 2020-2021**Suggested Supplemental Materials:**

Scientific calculator, basic calculators, rulers, dice, spinner, cards, money manipulatives, clock manipulatives, base 10 blocks, checking and saving account materials, fraction manipulatives, 3-D geometric shapes, and calendar manipulatives

Course Standards**PA Alternate Eligible Content/PA Core Standards:** (List by Number and Description)

CC.2.1HS: Number and Operations

CC.2.2HS: Algebraic Concepts

CC.2.3HS: Geometry

CC.2.4HS: Measurement, Data and Probability

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: CC. 2.1: Number and Operations

Eligible Content	Performance Indicators
CC.2.1.HS.F.2.a	Convert between a rational number to a decimal in real-life scenario
CC.2.1.HS.F.3.a	Identify and interpret scale in a real-life situations
CC.2.1.HS.F.4.a	Determine the necessary unit(s) to use to solve real world problems.
CC.2.1.HS.F.4.b	Solve real world problems involving units of measurement.

PA Standard: CC. 2.2: Algebraic Concepts

Eligible Content	Performance Indicators
CC.2.2.HS.C.1.a	Given a linear equation with one operation, identify a missing coordinate in a table of values containing at least 2 complete ordered pairs.
CC.2.2.HS.C.3.a	Given a table or graph, describe the relationship between two quantities.
CC.2.2.HS.C.5.a	In a linear situation using graphs or numbers, predict and/or interpret the effect of a change in rate or a change in a variable on the other feature.
CC.2.2.HS.C.5.b	Select the appropriate graphical representation of a linear model based on real world events.
CC.2.2.HS.D.1.a	Select an algebraic expression that matches a word problem.
CC.2.2.HS.D.7.a	Translate a real-world problem into a one variable linear equation.
CC.2.2.HS.D.7.b	Solve equations with one or two variables using equations or graphs.
CC.2.2.HS.D.8.a	Solve a linear equation to find a missing variable given the area, or volume and the other attribute(s).
CC.2.2.HS.D.9.a	Order a given sequence of steps to solve an equation.

PA Standard: CC. 2.3 Geometry

Eligible Content	Performance Indicators
CC.2.3.HS.A.12.a	Compare the volume of two objects with one equivalent attribute.
CC.2.3.HS.A.13.a	Match the shape of real-world objects to two-dimensional and three dimensional shapes (e.g., the trunk of a tree is cylindrical in shape; a car is cube in shape; the flower of a sunflower is circular in shape; a bookshelf is rectangular prism in shape).
CC.2.3.HS.A.14.a	Compare the area of two objects with one equivalent attribute.

PA Standard: CC.2.4 Measurement, Data and Probability

Eligible Content	Performance Indicators
CC.2.4.HS.B.1.a	Complete or select a graph (dot plots, histograms, or box plots) given a data set.
CC.2.4.HS.B.1.b	Identify the outlier in a set of data.
CC.2.4.HS.B.1.c	Interpret the given means and or medians of two sets of data
CC.2.4.HS.B.3.a	Select an appropriate statement that describes the relationship between variables.
CC.2.4.HS.B.5.a	Make or select an appropriate statement about findings.
CC.2.4.HS.B.5.b	Apply the results of the data to a real world situation.
CC.2.4.HS.B.7.a	Select or make an appropriate statement based on real world examples of probability.
CC.2.4.HS.B.7.b	Identify and describe the degree to which something is rated (likely/unlikely, positive/negative) based on numerical information.

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 Alternate Eligible Content Addressed: The teacher must be knowledgeable of the PDE Alternate Eligible Content and incorporate them into this planned instruction. Current alternate eligible content 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 ☒ No

District-wide Final Examination Required: _____ Yes ☒ No

Course Challenge Assessment (Describe): None

REQUIRED COURSE SEQUENCE AND TIMELINE

(Content must be tied to objectives)

Content Sequence	Dates
Objectives:	
<ul style="list-style-type: none">• Demonstrates number concepts/awareness• Identifies/recognizes numerals• Rote Counts to a certain number• Counts by 2s, 5s, 10s• Identifies numeration/place value• Performs addition, subtraction, multiplication and division operations• Uses a calculator• Solves simple story problems• Identifies coins and bills• Counts variety of coin and/or dollar combinations• Reads/writes monetary value using dollar sign and decimal point• Makes change• Identifies/uses variety of measurement tools• Measures volume, weight, temperature, distance• Identifies current date/day of the week• Tells time on an analog and digital clocks• Sets Time/alarm on a clock• Reads times to the minute, hour, 15 minute increments, and elapsed time	

WRITING TEAM: WCSD LSS Teachers

WCSD STUDENT DATA SYSTEM INFORMATION

1. Is there a required final examination? x Yes 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? x Yes No
5. Is the course eligible for Honor Roll calculation? x Yes No
6. What is the academic weight of the course?
 No weight/Non credit X Standard weight
 Enhanced weight (Describe)