

Course Outline

Course: Mathematics 2

Level: 9th & 10th grade (LLD)

Credits: 5

Revised: 1/09 (D. Wilson)

Prerequisites: none

Course Description:

Mathematics II has been designed as a required course for the Learning and Language Disabled class. The course is designed to enable every student to develop sufficient skills in whole numbers and fractions.

High Point Regional High School's curriculum and instruction are aligned to the state's Core Curriculum Standards and address the elimination of discrimination by narrowing the achievement gap, by providing equity in the educational programs and be providing opportunities for students to interact positively with others regardless of race, creed, color, national origin, ancestry, age, marital status, affectional or sexual orientation, gender, religion, disability, or socio-economical status.

CCCS Addressed:

- Standard 4.1 Number and Numerical Operations – All students will develop number sense and will perform standard numerical operations and estimations on all types of numbers in a variety of ways.
- Standard 4.2 Geometry and Measurement – All students will develop spatial sense and the ability to use geometric properties, relationships, and measurement to model, describe and analyze phenomena.
- Standard 4.5 Mathematical Processes – All students will use mathematical processes of problem solving, communication, connections, reasoning, representations, and technology to solve problems and communicate mathematical ideas.

Goals and Objectives:

Goal: To compare, simplify and compute fractions.

Objectives:

To name and compare fractions

To express a fraction in higher terms

To rename mixed numbers as improper fractions

To rename improper fractions as whole numbers or mixed numbers

To solve word problems involving mixed numbers

To add, subtract, multiply and divide fractions

Goal: To write, compute and express numbers as decimals

Objectives:

- To identify the value of a digit in a specific place
- To read decimal numbers written as numerals
- To compare and order decimal numbers
- To add, subtract, multiply, and divide decimal numbers
- To write factors expressed as decimal numbers
- To write whole numbers and decimal numbers in scientific notation
- To rename decimals as fractions

Goal: To find, convert, and calculate units of measure

Objectives:

- To convert units of liquid measurements
- To convert units of weight
- To measure using customary units of length
- To convert units of linear measurement
- To add, subtract, multiply, and divide unit of linear measure
- To find the perimeter of regular and irregular polygons
- To solve word problems involving area and perimeter
- To find the area of a rectangle, triangle, and parallelogram
- To determine the volume of a triangular prism and rectangular prism

Goal: To find, convert and calculate other units of measure

Objectives:

- To find the circumference of a circle
- To determine the diameter of a circle
- To calculate the area of a circle
- To compute the volume of a cylinder
- To add and subtract units of time
- To determine the elapsed time from one given time to another given time

Goal: To identify and compare ratio and proportion

Objectives:

- To write a ratio as a fractions in simplest form
- To compare amounts, using a ratio
- To identify ratios that form a proportion
- To find the missing term in a proportion
- To solve word problems, using ratios and proportions

Technology: Calculator – Casio-*fx*65, smart board, Understand math program

Materials: Basic Math Skills, American Guidance Service, 2001

Evaluation:

Homework based on	10 points
Class work based on	10 points
Quizzes based on	50 points
Tests based on	100 points