

# P.K. Yonge Developmental Research School

## Course Syllabus

**Course Title:** 7<sup>th</sup> Grade Mathematics

**Teacher:** Mrs. Kristin Weller

**Contact Information:**

**Phone:** (352) 392-1554, x269

**E-Mail:** [kweller@pky.ufl.edu](mailto:kweller@pky.ufl.edu)

**Website:** [http://www.pky.ufl.edu/classes/middle/math\\_weller/index.php](http://www.pky.ufl.edu/classes/middle/math_weller/index.php)

This course is designed to satisfy the Sunshine State Standards and Course Level Expectations which can be viewed at:

<http://www.firn.edu/doe/curric/prek12/frame2/htm>

**Course Goals:**

- Students will strengthen their basic math skills.
- Students will be able to understand and use basic algebra skills.
- Students will be able to apply mathematics in real-world problem solving.
- Students will learn a variety of techniques to master mathematics vocabulary and symbols, read for problem solving, and increase reading comprehension in mathematics.
- Students will write to explain, describe, justify, and compare in mathematical situations.

**Course Overview:**

The purpose of 7<sup>th</sup> Grade Mathematics is to continue the development of mathematical concepts and processes that can be used to solve real-world and mathematical problems. The content will include, but not be limited to, the following:

- structure and properties of rational numbers, including whole numbers, integers, fractions, mixed numbers, and decimals
- equivalent representations of numbers, including fractions, decimals, and percents, numbers with exponents, scientific notation, and absolute value
- operations and problem solving with rational numbers
- number theory, including primes, factors, multiples, and number sequences
- measurement techniques including choice of appropriate instruments, conversion of units, scale drawings, and derivation of simple geometric formulas for perimeter, area, and volume
- geometric terminology, properties, and relationships
- transformational geometry, including flips, turns, and slides
- algebraic thinking: analyzing and expressing patterns and relationships in various ways, including words, manipulatives, tables, graphs, number sequences,
- algebraic expressions and equations, and geometric formulas
- statistical methods for collecting, organizing, analyzing, and displaying data
- introduction to probability, including comparison of experimental and mathematically expected results
- basic calculator skills

### Materials Needed:

- Pencils
- Erasers
- Notebook Paper (not spiral bound, please)
- Section in 3-ring notebook for math class assignments
- Textbook - Students will be given a copy to take home and use for the school year. Students will not need to bring their books to class, as copies will be provided for in-class use.

### State Grading Scale:

Florida statutes establish the following grading scale:

- A: 90-100
- B: 80-89
- C: 70-79
- D: 60-69
- F: 59 and below

### Grading Policy:

- *Each quarter, grades will be averaged as follows:*

Tests:	35 percent
Quizzes:	15 percent
Homework:	15 percent
Projects:	15 percent
Written Assignments:	20 percent

- *Each semester, grades will be averaged as follows:*

<i>SEMESTER I</i>		<i>SEMESTER II</i>	
Quarter 1 grade:	40 percent	Quarter 3 grade:	40 percent
Quarter 2 grade:	40 percent	Quarter 4 grade:	40 percent
Semester exam:	20 percent	Semester exam:	20 percent

- *Year/Course Final grade will be averaged as follows:*

Semester I:	50 percent
Semester II:	50 percent

### Attendance:

Academic success is based on active involvement in daily class activities. Students have 48 hours to complete missed work due to an absence. After that, the assignment(s) will be subject to the late assignment policy. It is the student's responsibility to ask the teacher for the assignments he/she has missed, as stated in the Code of Conduct.

Late assignments will be lowered one letter grade for every class period they are late. Half credit will be given for any late work turned in after a progress report as long as it is received within one week from the time that progress reports are sent home.