Pequannock Township School District Curriculum Syllabus

PAWS Grade 5

Course Description:

The PAWS curriculum is designed to support all students in the development of number sense, fluency, and an understanding of mathematical concepts. The curriculum is a guide for teachers as they determine the best ways to support their students in progressing in the aforementioned areas.

Course Standards:

The following is a list of NJSLS that describe what students are expected to know and be able to do as a result of successfully completing this course. The following NJSLS are the basis of the assessment of student achievement. The learner will demonstrate mastery of:

Operations & Algebraic Thinking

1. Write and interpret numerical expressions.
   5.OA.A.1, 5.OA.A.2
2. Analyze patterns and relationships.
   5.OA.B.3

Number & Operations in Base Ten

3. Perform operations with multi-digit whole numbers and decimals to the hundredths.
   5.NBT.A.5, 5.NBT.A.6, 5.NBT.A.7

Measurement & Data

4. In geometric measurement, to understand the concept of volume and relate volume to multiplication and to addition. *5.*
   MD.C.3a-b, 5.MD.C.4, 5.MD.C.5a-c

Geometry

5. Graph points on the coordinate plane to solve real-world and mathematical problems. *5.*
   G.A.1, 5.G.A.2

Standards for Mathematical Practice

1. Construct viable arguments and critique the reasoning of others. *SMP3*
2. Look for and make use of structure. *SMP7*
3. Look for and express regularity in repeated reasoning. *SMP8*

Scope and Sequence

Unit 1 (Trimester 1) Number Talk Unit 1 Fluency Unit 1: Focus on Multiplication 0-10 PAWS Project 1: Building a Business in Pequannock
Unit 2 (Trimester 2) Number Talk Unit 2 Fluency Unit 2: Focus on Division PAWS Project 2: Problem Solving and Logical Thinking in Mathematics
Unit 3 (Trimester 3) Number Talk Unit 3 Fluency Unit 3: Focus on Multiplication and Division PAWS Project 3: Mindset Mathematics

Assessments

Evaluation of student achievement in this course will be based on the following:

a. Teacher observation
b. Student self-monitoring of progress

Curriculum Resources

Instructional Resources:

- Number Talks: Helping Children Build Mental Math and Computation Strategies
- *Games and Tools for Teaching Multiplication Facts* by Jennifer Bay-Williams and Gina Kling (folio)
- *Mastering the Basic Math Facts in Multiplication and Division* by Susan O'Connell and John SanGiovanni

Home and School Connection

The following are suggestions and/or resources that will help parents support their children:

- YouCubed parent resources: https://www.youcubed.org/resource/parent-resources/
- Table Talk Math parent resources: https://www.tabletalkmath.com/resources.html
- Fluency Without Fear: Research Evidence on the Best Ways to Learn Math Facts