

Warren County School District

PLANNED INSTRUCTION

COURSE DESCRIPTION

**Course Title:** Grade 6 Math Elective – Math Collides with the Real World

**Course Number:** 00276

**Course Prerequisites:** None

**Course Description:**

Students will learn how math intersects with sports, art, cooking, reading, and design. Through project based learning the connections between math and the real world will be discovered. Concepts of this course include mean, median, and mode; ratios in cooking; area and surface area; art and reading within mathematics; and 3-D designs.

**Suggested Grade Level:** Sixth Grade

**Length of Course:**     One Semester                       Two Semesters                       Other (Describe)

**Units of Credit:** .5 Middle Level Credit (Insert *None* if appropriate)

**PDE Certification and Staffing Policies and Guidelines (CSPG) Required Teacher Certifications:**  
CSPG - Elementary K-6 or Middle Level Math

**Certification verified by WCSD Human Resources Department:**  Yes     No

TEXTBOOK AND SUPPLEMENTAL MATERIALS

**Continue using Board approved textbook?**  Yes     No (If yes, then complete the information below.)

**Board Approved Textbooks, Software, Supplemental Materials:**

**Title:**

**Publisher:**

**ISBN #:**

**Copyright Date:**

**Date of WCSD Board Approval:**

## **BOARD APPROVAL:**

**Date Written:** February 22, 2018

**Date Approved:** April 9, 2018; March 11, 2019 Revised Credit

**Implementation Date:** 2018-2019

### **SPECIAL EDUCATION AND GIFTED REQUIREMENTS**

The teacher shall make appropriate modification to instruction and assessment based on a student's Individual Education Plan (IEP) or Gifted Individual Education Plan (GIEP).

#### **COURSE OVERVIEW**

*(List the content to be taught)*

**For standards, essential questions, content, and skills see Curriculum Map**

- 1) Topic #1 – Mean, Median, Mode (2-3 weeks)
  - Teach or reteach mean, median, mode
  - Relate to sports
  - Complete Math Shell lesson (under grade 6, probability and stats, titled: Representing variability with mean, median, mode, range)
  - Students create own project to gather data and create different representations of those stats
  
- 2) Topic #2 – Ratios in Cooking and Baking (2-3 weeks)
  - Teach or Reteach ratios and measurement including fractions & decimals
  - Students use recipes to do measurement
  - Use recipes to determine how much of each product you would need to purchase to bake/cook said recipe
  - Students use recipes to then double/triple amounts
  - Project on these concepts and skills  
i.e. Make Rice Krispy Treats. Take recipe, triple it. Determine how much of each ingredient you would need to purchase. Make said product.
  
- 3) Topic #3 – Area, Surface Area, and Volume (3-4 weeks)
  - Teach or Reteach using area and volume formulas
  - Math Shell Lesson (under 6, geometry, titled: Using Space Efficiently)
  - Math Shell Lesson (under 6, geometry, titled: Designing 3D Projects: Candy Cartons)
  - Project of Build your own Storage Unit to hold rice and pick what shape from a hat to determine which student will build what structure to hold volume of rice

- 4) Topic #4 – Art and Reading in Math (2-3 weeks)
- Create your own Tangram
  - Write a short story collectively as a class using each tangram
  - Complete Stained Glass Vases (Pinterest) art project to create a vase with tape and markers
  - Origami project
- 5) Topic #5 – Design (3D) (2 -3 weeks)
- Watch videos on different designs of Tiny Homes
  - Create your own “Tiny Home” layout using Teachers Pay Teachers “Build a Tiny House” project
- 6) End of Semester Project (4- 5 weeks)
- Create your own Food Truck Project (set up a fair with all the food trucks)
  - layout/design of truck, create a logo for advertising, create a menu, basic cost analysis, cook something you would sell and share, fake money to purchase different products

### ASSESSMENT

**Portfolio Assessment:**  Yes  No

**District-Wide Common Final Examination Required:**  Yes  No

**Course Challenge Assessment (Describe):** none

**WRITING TEAM:** Warren County School District Teachers

### WCSD STUDENT DATA SYSTEM INFORMATION

1. Is there a required final examination?  Yes  No  
*\*Warren County School District Policy 9741 and 9744 state, “All classes in grades 9-12 shall have a final exam.”*
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