MODESTO CITY SCHOOLS
COURSE OUTLINE

Course Title	Mathematics – Grade 7 OLL
Course Number	OLL (S1) OLL (S2)
Recommended Grade	☒ 7 ☐ 8 ☐ 9 ☐ 10 ☐ 11 ☐ 12
Duration	☐ Quarter ☒ Semester
Credit	☐ 2.5 ☒ 5 ☐ 10
Repeatable for Credit	☐ Yes ☒ No
Required for Graduation	☒ Yes ☐ No
Meets Graduation Requirement	☒ Yes ☐ No
CALPADS Course Number	9240
CALPADS Course Name	Math (Departmentalized K-8)
Meets UC/CSU Requirements	☐ Yes ☐ No If yes, which area? ☐ A ☐ B ☐ C ☐ D ☐ E ☐ F ☐ G N/A
CTE Course	☐ Yes ☒ No
CTE Course Level	☐ Introduction ☐ Concentrator ☐ Capstone N/A
Part of a Course Pathway	☐ Yes ☒ No If yes, which pathway?
Credential Requirements	
Replaces	N/A
Recommended Prerequisites	N/A
Aligned to Standards Date	
Content Delivery Method	☐ Instructor Led ☒ Online Provider Modesto Virtual Academy
Other Information	
Board Approval Date	
Implementation Date	Fall 2020

Course Description:

Required Text(s): (Title, Publisher, Year):

Supplementary Materials(s):

Course Name: Middle School Grade 7 Mathematics v14

Course Credit: 1.0

Estimated Completion Time: 2 Semesters / 32-36 Weeks

Course Description: This course is designed to expand student knowledge about the transformation of shapes by sliding, flipping, rotating, and enlarging them on a coordinate plane. This course gives students the opportunity to create, investigate, and demonstrate knowledge at both intermediate and advanced levels. Students will be amazed with the skills that they accumulate while completing this course. This course is so full of animations, applications, videos, games, and real-world scenarios, students may think it is the latest video game.

Discussion-Based Assessments: 1.09, 2.09, 3.09, 4.09, 5.11, 6.11, 7.09, 8.09

Collaboration Activities: 1.05, 2.03, 3.05, 5.05, 6.05, 7.03

Honors Lessons: Honors lessons are titled as "Advanced" in this course. They are located at 1.06A, 1.07A, 2.04A, 2.05A, 2.06A, 2.07A, 3.06A, 3.07A, 4.06A, 4.07A, 5.06A, 5.07A, 5.08A, 5.09A, 6.06A, 6.07A, 6.08A, 6.09A, 7.04A, 7.05A, 7.06A, 7.07A, 8.04A, 8.05A, 8.06A, 8.07A

Course Profile:

Honors Assessments	26
Automated Quizzes	78
Project-Based Assessments	6
Labs	N/A
Writing Assignments	N/A
Graded Assessments	112
Non-Graded Assessments	0

Types of Assessments:

Multiple Choice	X	Essay	X
Worksheets		Collaborative	X
Web 2.0		Short Response	X
Project – Based	X	Labs	
Self - Check	X	Discussion-Based Assessments	X

Scope and Sequence:

Module 1: Rational Numbers

- The Number Line
- Adding and Subtracting Rational Numbers
- Multiplying Rational Numbers
- Strategies for Rational Numbers
- Irrational Numbers
- Approximating Rational Numbers

Module 2: Application of Rational Numbers

- Dividing Rational Numbers
- Converting Rational Numbers
- Rational Numbers in the Real World
- Exponents
- Operations with Roots
- Scientific Notation
- Operations with Scientific Notation

Module 3: Equations and Inequalities

- Expanding and Simplifying Expressions
- Applications of Expressions
- Equations
- Inequalities
- Linear Equations
- Systems of Equations

Module 4: Proportions

- Unit Rates
- Characteristics of a Proportion
- Proportionality and Equations
- Applications of Ratios
- Applications of Percents
- Graphing Proportional Relationships
- Slope-Intercept Form

Module 5: Geometry

- Scale Drawings
- Angles and Triangles
- Circles
- 3-D Figures and Cross Sections
- Transformations
- Congruency
- Transformations and the Coordinate Plane
- Transversals and Angles

Module 6: Probability of Simple Events

- Understanding Probability
- Approximating Probability
- Probability Models
- Data Observation
- Pythagorean Theorem
- Applications of the Pythagorean Theorem
- Pythagorean Theorem on the Coordinate Plane
- Formulas

Module 7: Probability of Compound Events

- Representing Sample Spaces
- Understanding Compound Events
- Probability Simulations
- Introductions to Functions
- Understanding Linear Functions
- Applications of Functions
- Analyzing Functions

Module 8: Statistics

- Samples and Inferences
- Statistical Variability and Comparing Populations
- Applications of Statistics
- Scatter Plots
- Line of Best Fit
- Interpreting Lines
- Frequency Tables