Moon Area School District Curriculum Map

Course: Accelerated Math 6
Grade Level: 6
Content Area: Mathematics
Frequency: Full-Year Course

Big Ideas

1. Variables and Equations
2. Integer Operations
3. Solving Equations and Inequalities
4. Factors, Fractions and Exponents
5. Rational Number Operations
6. Multi-Step Equations and Inequalities
7. Ratio, Proportional Reasoning, and Percent
8. Polygons and Transformations
9. Measurement, Area, and Volume
10. Statistical Analysis and Data
11. Linear Equations and Graphs

Essential Questions

12. How can you use variables to represent quantities and their relationships?
13. How do numbers represent real world situations?
14. How can you find the solution to real world problems using mathematical representations?
15. Why are proportional relationships important and how can we find similar relationships in the real world?
16. How can you add, subtract, multiply and divide rational numbers?
17. What is the relationship between solving single step and multi-step equations?
18. Why are geometric principals important aspects of daily life?
19. What information can be observed through various data displays?
20. How can real world situations be described through equations and graphs?
21. How are dependent and independent events related?
22. How can probability and data analysis be used to make predictions?

Primary Resource(s) & Technology:
McDougal Littell Middle School Math Course 3, IXL online software, Microsoft Teams, Promethean Boards, Student Laptops/iPads

Pennsylvania and/or focus standards referenced at:
www.pdesas.org

www.education.pa.gov

Big Ideas/ EQs	Focus Standard(s)	Assessed Competencies (Key content and skills)	Timeline
1, 12	Chapter 1 Variables and Equations 2.1.6	• Using graphs to analyze data • Evaluate and write numerical and variable expressions • Solve equations using mental math	August - September
2, 13	Chapter 2 Integer Operations 2.1.6	• Operations with Integers • Using properties to evaluate expressions • Identifying and plotting points in the coordinate plane	September
3, 14	Chapter 3 Solving Equations and Inequalities 2.2.6	• Solve one and two step equations • Write one and two step equations • Finding area and perimeter • Write and solve inequalities	October
4, 15	Chapter 4 Factors, Fractions, and Exponents 2.2.6	• Factoring and simplifying numbers, fractions, exponents • Multiplying and dividing expressions with real-world problems	November
5, 16	Chapter 5 Rational Number Operations 2.2.6	• Performing operations on fractions, mixed numbers, and decimals • Rewrite fractions and decimals	December
6, 17	Chapter 6 Multi-Step Equations and Inequalities 2.5.6	• Solving multi-step equations • Solve equations that have variables on one side or both sides • Solve multi-step inequalities to solve real-world problems	January
7, 18	Chapter 7 Ratio, Proportion, and Percent 2.5.6	• Finding ratios and unit rates • Write and solve proportions • Solve percent problems • Rewrite fractions, decimals, and percents • Finding probabilities of events	February
8, 19	Chapter 8 Polygons and Transformations 2.4.6	• Solve equations to find angle measures • Classifying angles and triangles • Reflecting, translating, and rotating figures in a coordinate plane	March

9, 20	Chapter 10 Measurement, Area, and Volume 2.4.6	• Finding the areas of triangles, parallelograms, rhombi, trapezoids • Identifying and sketching three-dimensional figures • Finding the surface areas and volumes of solids	April

10, 21	Chapter 11 Linear Equations and Graphs 2.4.6	• Constructing and interpreting scatter plots • Finding solutions of equations in two variables • Writing and graphing equations	May/June
11, 22	Chapter 12 Data Analysis and Probability 2.4.6	• Interpreting data displays • Finding probability of independent and dependent events • Understanding the difference between independent and dependent variables • Use data to create a box plot and bar graph • Using data to find mean absolute deviation, mean, median, mode, and range	May/June