Danville Area School District
Course Overview and Scope and Sequence

Course Title: 7th Grade Math with Algebra Concepts
Content Area: Math
Grade Level: 7th
Date Developed: August 2023

COURSE OVERVIEW: This course is also aligned with the 7th grade Pennsylvania System of School Assessment (PSSA) anchors. Topics include eligible content including operations with rational numbers including fractions, decimals and integers, proportional thinking and applications, applications of percents, writing and solving algebraic equations and inequalities, various geometry concepts including surface area and volume of composite solid figures, area and circumference of circles, slicing of solid figures, and angles. Students will also learn probability concepts and use statistical methods to compare samples. In addition to the 7th grade PSSA standards, students will learn how to solve multiple step equations, multiple step inequalities and compound inequalities. Students will be applying and using algebraic thinking in the various topic areas including proportional thinking, percent applications and geometry. In the 4th marking period students will take the 7th grade Math PSSA.

ANCHOR STANDARDS:
CC.2.1.7.D.1,CC.2.1.7.E.1, CC.2.3.7.A.1, CC.2.3.7.A.2, , CC.2.2.7.B.3, 2.5.7.A, 2.5.7.B, 2.3.7.E, 2.1.7.A, 2.1.7.B, 2.2.7.B, 2.2.7.D
CC.2.1.7.E.1, CC.2.2.7.B.1, 2.8.7.B,2.8.7.C, 2.8.7.E, 2.8.7.F, CC.2.1.7.B.1, CC.2.1.7.B.2, 2.1.7.C, 2.1.7.F, 2.4.7.A, 2.6.7.E, 2.6.7.D
2.6.7.C, 2.6.7.B, 2.6.7.A, 2.3.7.B, 2.3.7.C, 2.3.7.F, 2.9.7.A, CC.2.4.7.B.3, 2.7.7.A, 2.8.7.A, 2.9.6.C

KEY COURSE TEXT AND MATERIALS:
i-Ready Classroom Mathematics - 7th Grade
iReady Classroom toolbox
i-Ready online program
Teacher created materials as needed

KEY ASSESSMENTS:
Diagnostic: iReady
Formative: lesson quizzes, exit slips
Summative: PSSAs, CDTs, unit tests

SCOPE AND SEQUENCE				
Unit	PRIORITY STANDARDS	ASSESSMENT	MATERIALS	TIMEFRAME
Unit 1: Proportional Relationships: Ratios, Rates, and Circles	CC.2.1.7.D.1 CC.2.1.7.E.1 CC.2.3.7.A.1 CC.2.3.7.A.2 CC.2.2.7.B.3 2.5.7.A 2.5.7.B 2.3.7.E	Lesson 1 Quiz Lesson 2 Quiz Lesson 3 Quiz Lesson 4 Quiz Lesson 5 Quiz Lesson 6 Quiz Unit 1 Test	i-Ready Classroom Mathematics - 7th Grade i-Ready online program Teacher created materials as needed	29 Days
Unit 2: Numbers and Operations: Add and Subtract Rational Numbers	2.1.7.A 2.1.7.B 2.2.7.B 2.2.7.D CC.2.1.7.E.1 CC.2.2.7.B.3	Lesson 7 Quiz Lesson 8 Quiz Lesson 9 Quiz Lesson 10 Quiz Unit 2 Test	i-Ready Classroom Mathematics - 7th Grade i-Ready online program Teacher created materials as needed	19 Days
Unit 3: Numbers and Operations:	2.1.7.A 2.1.7.B	Lesson 11 Quiz	i-Ready Classroom	17 Days

Multiply and Divide Rational Numbers	2.1.7.D 2.1.7.E 2.2.7.B 2.2.7.C 2.2.7.D CC.2.1.7.E.1 CC.2.2.7.B.3	Lesson 12 Quiz Lesson 13 Quiz Lesson 14 Quiz Unit 3 Test	Mathematics - 7th Grade i-Ready online program Teacher created materials as needed	
Unit 4: Algebraic Thinking Expressions, Equations, and Inequalities	CC.2.2.7.B.3 CC.2.2.7.B.1 2.8.7.B 2.8.7.C 2.8.7.E 2.8.7.F	Lesson 15 Quiz Lesson 16 Quiz Lesson 17 Quiz Lesson 18 Quiz Lesson 19 Quiz Unit 4 Test	i-Ready Classroom Mathematics - 7th Grade	27 Days
Unit 5: Proportional Reasoning: Percents and Statistical Samples	CC.2.1.7.D.1 CC.2.1.7.B.1 CC.2.1.7.B.2 2.1.7.C 2.1.7.F 2.2.7.D 2.1.7.B 2.4.7.A 2.6.7.E 2.6.7.D 2.6.7.C 2.6.7.B 2.6.7.A	Lesson 20 Quiz Lesson 21 Quiz Lesson 22 Quiz Lesson 23 Quiz Lesson 24 Quiz Unit 5 Test	i-Ready Classroom Mathematics - 7th Grade i-Ready online program Teacher created materials as needed	25 Days
Unit 6: Geometry: Solids, Triangles, and Angles	CC.2.2.7.B.3 CC.2.2.7.B.1 CC.2.3.7.A.1 CC.2.3.7.A.2 2.3.7.B	Lesson 25 Quiz Lesson 26 Quiz Lesson 27 Quiz Lesson 28 Quiz	i-Ready Classroom Mathematics - 7th Grade i-Ready online program Teacher created materials as	20 Days

	2.3.7.C 2.3.7.F 2.9.7.A	Lesson 29 Quiz Unit 6 Test	needed	
Unit 7: Probability: Theoretical Probability, Experimental Probability, and Compound Events	CC.2.4.7.B.3 CC.2.4.7.B.1 CC.2.4.7.B.2 2.7.7.A 2.7.7.B 2.7.7.C 2.7.7.D 2.7.7.E	Lesson 30 Quiz Lesson 31 Quiz Lesson 32 Quiz Lesson 33 Quiz Unit 7 Test	i-Ready Classroom Mathematics - 7th Grade i-Ready online program Teacher created materials as needed	16 Days
Unit 8: Post PSSA	CC.2.2.7.B.3 CC.2.2.7.B.1 2.8.7.A 2.8.7.B 2.8.7.C 2.8.7.E 2.8.7.F 2.9.6.C	Equations Quiz Inequalities Quiz Graphing Quiz	Teacher created materials	20 Days