Danville Area School District
Course Overview and Scope and Sequence

Course Title: Keystone Algebra Grade 7
Content Area: Mathematics
Grade Level: 7
Date Developed: July 2023

COURSE OVERVIEW: This course is aligned to the Pennsylvania Keystone Assessment Anchors and focuses on simplifying algebraic expressions, graphing / interpreting linear equations and inequalities, solving systems of equations, analyzing functions, applying properties of exponents, factoring,and simplifying rational expressions. In addition students will learn probability and data analysis including “line of best fit.” The Keystone Algebra I Exam will be administered during the fourth marking period. Additionally, this course is also aligned with the 7th grade Pennsylvania System of School Assessment (PSSA) anchors. Topics include eligible content including the number system, expressions and equations, ratios and proportions, intro to geometry concepts, probability and statistics. In addition to the Keystone Exam, students will take the PSSA Math test during the fourth marking period.
ANCHOR STANDARDS: 2.1.7.A, 2.1.7.B, 2.2.7.B, 2.2.7.D, 2.1.7.D, 2.2.7.C, A1.1.2.1.1, A1.1.3.1.1, A1.1.2.1.2, A1.1.2.1.3, A1.1.1.3.1, CC.2.1.HS.F.1, CC.2.1.7.D.1, CC.2.3.7.A.2, CC.2.3.7.A.1, CC.2.2.7.B.3, 2.5.7.B, 2.3.7.E, A1.2.1.1.1, A1.2.1.2.1, A1.2.1.2.2, A1.2.2.1.1, A1.2.2.1.2 A1.2.2.1.3, A1.2.2.1.4, A1.2.1.1.2, A1.1.2.2.1, A1.1.2.2.2, CC.2.3.7.A.1, 2.3.7.C, 2.9.7.A, CC.2.1.7.D.1,CC.2.4.7.B.1 CC.2.4.7.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, A1.2.1.1.1, A1.2.1.2.1 A1.2.3.1.1, A1.2.3.2.1, A1.2.3.2.2, A1.2.3.3.1, A1.1.1.2.1, A1.1.1.3.1, A1.1.1.4.1, A1.1.1.5.1, A1.1.1.5.2 , A1.1.1.5.3
KEY COURSE TEXT AND MATERIALS: Teacher created packets, Ready Math 7 Textbook & Toolbox
KEY ASSESSMENTS: Diagnostic: iReady

Formative: Quizzes, exit tickets
Summative: PSSAs, CDTs, Unit Tests

SCOPE AND SEQUENCE					
Unit	PRIORITY STANDARDS	SUPPORTING STANDARDS	ASSESSMENT	MATERIALS	TIMEFRAME
Rational and Irrational Numbers	2.1.7.A 2.1.7.B 2.2.7.B 2.2.7.D 2.1.7.D 2.2.7.C.	CC.2.1.7.E.1 CC.2.2.7.B.3	Quiz throughout the unit Chapter Exam Homework Checks Q & A Progress monitoring	Chromebook White Boards Unit Packet - including all worksheets Ready Math 7 Textbooks & toolbox	10 days
Expressions, Equations, & Inequalities	A1.1.2.1.1 A1.1.3.1.1 A1.1.2.1.2 A1.1.2.1.3	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	Quiz throughout the unit Chapter Exam Homework Checks Q & A Progress monitoring	Chromebook White Boards Scientific Calculators Unit Packet - including all worksheets Projector	25 days
Properties of Exponents	A1.1.1.3.1 CC.2.1.HS.F.1		Quiz through the unit Unit Exam Homework Checks	Chromebook White Boards Scientific Calculators	20 days

			Q & A Progress monitoring and Check Understandings	Unit Packet - including all worksheets	
Proportionality	CC.2.1.7.D.1 CC.2.3.7.A.2 CC.2.3.7.A.1 CC.2.2.7.B.3 2.5.7.B 2.3.7.E	CC.2.1.7.E.1 2.5.7.A	Quiz through the unit Unit Exam Homework Checks Q & A Progress monitoring and Check Understandings	Ready Math 7 Textbook & toolbox	10 days
Rate of Change & Linear Equations	A1.2.1.1.1 A1.2.1.2.1 A1.2.1.2.2 A1.2.2.1.1 A1.2.2.1.2 A1.2.2.1.3 A1.2.2.1.4		Quiz through the unit Unit Exam Homework Checks Q & A Progress monitoring and Check Understandings	Chromebook White Boards Scientific Calculators Unit Packet - including all worksheets	20 days
Functions & Scatter Plots	A1.2.1.1.2		Quiz through the unit Unit Exam Homework Checks Q & A Progress monitoring and Check Understandings	Chromebook White Boards Scientific Calculators Unit Packet - including all worksheets	15 days

Systems of Equations & Inequalities	A1.1.2.2.1 A1.1.2.2.2		Quiz through the unit Unit Exam Homework Checks Q & A Progress monitoring and Check Understandings	Chromebook White Boards Scientific Calculators Unit Packet - including all worksheets Ready Math 7 Book & toolbox materials	15 days
Square Roots, Pythagorean Theorem and Geometry Concepts	CC.2.3.7.A.1 2.3.7.C 2.9.7.A	CC.2.2.7.B.3 CC.2.2.7.B.1 CC.2.3.7.A.2 CC.2.2.7.B.3	Quiz through the unit Unit Exam Homework Checks Q & A Progress monitoring and Check Understandings	Chromebook White Boards Scientific Calculators Unit Packet - including all worksheets Ready Math 7 Book & toolbox materials	25 days
Percent Applications, Sampling & Data Displays	CC.2.1.7.D.1 CC.2.4.7.B.1 CC.2.4.7.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		Quiz through the unit Unit Exam Homework Checks Q & A Progress monitoring and Check Understandings	Ready Math 7 textbook & Toolbox	15 days

Probability	A1.2.1.1.1 A1.2.1.2.1 A1.2.3.1.1 A1.2.3.2.1 A1.2.3.2.2 A1.2.3.3.1	CC.2.4.7.B.3 2.7.7.A 2.7.7.B 2.7.7.C 2.7.7.D 2.7.7.E	Quiz through the unit Unit Exam Homework Checks Q & A Progress monitoring and Check Understandings	Chromebook White Boards Scientific Calculators Unit Packet - including all worksheets	10 days
Polynomials & Factoring	A1.1.1.2.1 A1.1.1.3.1 A1.1.1.4.1 A1.1.1.5.1 A1.1.1.5.2 A1.1.1.5.3		Quiz through the unit Unit Exam Homework Checks Q & A Progress monitoring and Check Understandings	Chromebook White Boards Scientific Calculators Unit Packet - including all worksheets	20 days