

Danville Area School District
Course Overview and Scope and Sequence

Course Title: Math 8
Content Area: Math
Grade Level: 8
Date Developed: August 2023

COURSE OVERVIEW: This course is also aligned with the 8th grade Pennsylvania System of School Assessment (PSSA) anchors. Topics include eligible content including the number system, expressions and equations (including systems of equations), functions, intro to geometry concepts such as Pythagorean Theorem and transformations, probability and statistics. This course is designed for students who need additional help and support in mathematics. Students will take the PSSA Math test during the fourth marking period.
ANCHOR STANDARDS: CC.2.2.5.A.1, CC.2.2.7.B.1, M07.B-E.1.1.1, CC.2.3.8.A.2, M08.C-G.1, 8.G.A.1, 8.G.A.2, 8.G.A.3, 8.G.A.4, 8.G.A.5, CC.2.2.8.B.2, CC.2.2.8.B.3, 8.EE.B.5 8.EE.B.6, 8.EE.C.7, 8.EE.C.8, 8.F.B.4, CC.2.2.8.C.1, CC.2.2.8.C.2, 8.F.A.1, 8.F.A.2, 8.F.A.3, CC.2.2.8.B.1, 8.EE.A.1, 8.EE.A.3, 8.EE.A.4, CC.2.3.8.A.3 CC.2.3.8.A.1, 8.EE.A.2, 8.NS.A.1, 8.NS.A.2, 8.G.B.6, 8.G.B.7, 8.G.B.8, 8.G.C.9, CC.2.4.8.B.1, CC.2.4.8.B.2, 8.SP.A.1, 8.SP.A.2, 8.SP.A.3, 8.SP.A.4,8.F.B.4
KEY COURSE TEXT AND MATERIALS: Textbook, Chromebook, White Boards, Unit Packet-including all worksheets, Projector
KEY ASSESSMENTS: Diagnostic: iReady Formative: quizzes, exit slips Summative: PSSAs, CDTs, unit tests

SCOPE AND SEQUENCE					
Unit	PRIORITY STANDARDS	SUPPORTING STANDARDS	ASSESSMENT	MATERIALS	TIMEFRAME
Unit 0: "Housekeeping" & Math 7 Skills Review	CC.2.2.5.A.1 CC.2.2.7.B.1 M07.B-E.1.1.1	M05.B-O.1.1.1 M05.B-O.1.1.2	iReady Diagnostic	iReady Textbook & online Toolbox iReady Diagnostic Teacher created materials	5 days
Unit 1: Geometric Figures: Rigid Transformations and Congruence	CC.2.3.8.A.2 M08.C-G.1 8.G.A.1 8.G.A.2	CC.2.3.7.A.2	Coordinate plane quiz Lesson quizzes Unit Test	iReady Textbook & online Toolbox Teacher created materials	16 days
Unit 2: Geometric Figures: Transformations, Similarity, and Angle Relationships	CC.2.3.8.A.2 M08.C-G.1 8.G.A.3 8.G.A.4 8.G.A.5	CC2.3.7.A.1 CC.2.2.8.B.3	Lesson quizzes Unit Test	iReady Textbook & online Toolbox Teacher created materials	20 days
Unit 3: Linear Relationships: Slope, Linear Equations, and Systems	CC.2.2.8.B.2 CC.2.2.8.B.3 8.EE.B.5 8.EE.B.6 8.EE.C.7 8.EE.C.8 8.F.B.4	CC.2.1.7.D.1 CC.2.2.7.B.1	Lesson quizzes Unit Test	iReady Textbook & online Toolbox Teacher created materials	34 days
Unit 4: Functions: Linear and Non-Linear Relationships	CC.2.2.8.C.1 CC.2.2.8.C.2 8.EE.B.5 8.EE.B.6 8.F.A.1 8.F.A.2 8.F.A.3	CC.2.2.8.B.3 CC.2.2.8.B.2 CC.2.1.7.D.1	Lesson quizzes Unit Test	iReady Textbook & online Toolbox Teacher created materials	21 days

	8.F.B.4 8.F.B.5 8.SP.A.3				
Unit 5: Integer Exponents: Properties and Scientific Notation	CC.2.2.8.B.1 8.EE.A.1 8.EE.A.3 8.EE.A.4	CC.2.1.7.E.1	Lesson quizzes Unit Test	iReady Textbook & online Toolbox Teacher created materials	21 days
Unit 6: Real Numbers: Rational Numbers, Irrational Numbers, and the Pythagorean Theorem	CC.2.3.8.A.3 CC.2.3.8.A.1 CC.2.1.8.E.4 CC.2.1.8.E.1 8.EE.A.2 8.NS.A.1 8.NS.A.2 8.G.B.6 8.G.B.7 8.G.B.8 8.G.C.9	CC2.2.8.B.3 CC.2.1.7.E.1	Lesson quizzes Unit Test	iReady Textbook & online Toolbox Teacher created materials	27 days
Unit 7: Statistics: Two-Variable Data and Fitting a Linear Model	CC.2.4.8.B.1 CC.2.4.8.B.2 8.SP.A.1 8.SP.A.2 8.SP.A.3 8.SP.A.4 8.F.B.4	CC.2.4.6.B.1 CC.2.2.8.B.2	Lesson quizzes Unit Test	iReady Textbook & online Toolbox Teacher created materials	19 days