

**2018-2019 · Hartford Public Schools · Grades 6 - 8, Algebra I, Algebra II, and Geometry & Data
Schedule of Assessed Standards (SAS)**

IA 0: August 28-31, 2018

IA 1: October 15-26, 2018

IA 2: January 3-16, 2019

IA 3: March 11-22, 2019

IA 4: May 28- June 7, 2019 (Last 10 school days)

Grade 6

Interim Assessment 1	Module 1: Ratios and Unit Rates
	Topic A: Representing and Reasoning About Ratios
	Topic B: Collections of Equivalent Ratios
	Topic C: Unit Rates
	Topic D: Percent
Interim Assessment 2	Module 2: Arithmetic Operations Including Division of Fractions
	Topic A: Dividing Fractions by Fractions
	Topic B: Multi-Digit Decimal Operations- Adding, Subtracting, and Multiplying
	Topic C: Dividing Whole Numbers and Decimals
	Topic D: Number Theory- Thinking Logically About Multiplicative Arithmetic
	Module 3: Rational Numbers
	Topic A: Understanding Positive and Negative Numbers on the Number Line
	Topic B: Order and Absolute Value
	Topic C: Rational Numbers and the Coordinate Plane
IA 3	Module 4: Expressions and Equations
	Topic A: Relationships of the Operations
	Topic B: Special Notations of Operations
	Topic C: Replacing Letters and Numbers
	Topic D: Expanding, Factoring, and Distributing Expressions
	Topic E: Expressing Operations in Algebraic Form
	Topic F: Writing and Evaluating Expressions and Formulas
	Topic G: Solving Equations
	Topic H: Applications of Equations

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Interim Assessment 4	Module 5: Area, Surface Area, and Volume Problems
	Topic A: Area of Triangles, Quadrilaterals, and Polygons
	Topic B: Polygons on the Coordinate Plane
	Topic C: Volume of Right Rectangular Prisms
	Topic D: Nets and Surface Area
	Module 6: Statistics
	Topic A: Understanding Distributions
	Topic B: Summarizing a Distribution That is Approximately Symmetric Using the Mean and Mean Absolute Deviation
	Topic C: Summarizing a Distribution That is Skewed Using the Median and the Interquartile Range
	Topic D: Summarizing and Describing Distributions

Grade 7

Interim Assessment 1	Module 1: Ratios and Proportional Relationships
	Topic A: Proportional Relationships
	Topic B: Unit Rate and the Constant of Proportionality
	Topic C: Ratios and Rates Involving Fractions
Interim Assessment 2	Topic D: Ratios of Scale Drawings
	Module 2: Rational Numbers
	Topic A: Addition and Subtraction of Integers and Rational Numbers
	Topic B: Multiplication and Division of Integers and Rational Numbers
	Topic C: Applying Operations with Rational Numbers to Expressions and Equations
	Module 3: Expressions and Equations

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	Topic A: Use Properties of Operations to Generate Equivalent Expressions
	Topic B: Solve Problems Using Expressions, Equations, and Inequalities
Interim Assessment 3	Topic C: Use Equations & Inequalities to Solve Geometry Problems
	Module 4: Percent and Proportional Relationships
	Topic A: Finding the Whole
	Topic B: Percent Problems Including More Than One Whole
	Topic C: Scale Drawings
	Topic D: Population, Mixture, and Counting Problems Involving Percent
	Module 5: Statistics and Probability
Interim Assessment 4	Topic A: Calculating and Interpreting Probabilities
	Topic B: Estimating Probabilities
	Topic C: Random Sampling and Estimating Population Characteristics
	Topic D: Comparing Populations
	Module 6: Geometry
	Topic A: Unknown Angles
	Topic B: Constructing Triangles
	Topic C: Slicing Solids
	Topic D: Problems Involving Area and Surface Area
	Topic E: Problems Involving Area

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Honors 7 Mathematics

Interim Assessment 1	Grade 7 Module 1: Ratios and Proportional Relationships
	Topic A: Proportional Relationships
	Topic B: Unit Rate and the Constant of Proportionality
	Topic C: Ratios and Rates Involving Fractions
	Topic D: Ratios of Scale Drawings
	Grade 7 Module 2: Rational Numbers
	Topic A: Addition and Subtraction of Integers and Rational Numbers
	Topic B: Multiplication & Division of Integers & Rational Numbers
	Topic C: Applying Operations with Rational Numbers to Expressions and Equations
Interim Assessment 2	Grade 7 Module 3: Expressions and Equations
	Topic A: Use Properties of Operations to Generate Equivalent Expressions
	Topic B: Solve Problems Using Expressions, Equations & Inequalities
	Carnegie Learning Grade 8 Module 3 Topic 1: Solving Linear Equations
	Carnegie Learning Grade 8 Module 4 Topic 1: The Real Number System
	Grade 7 Module 6 Topic A: Unknown Angles
	Topic C: Use Equations & Inequalities to Solve Geometry Problems
Carnegie Learning Grade 8 Module 4 Topic 2: Pythagorean Theorem	
Interim Assessment 3	Grade 7 Module 4: Percent and Proportional Relationships
	Topic A: Finding the Whole
	Topic B: Percent Problems Including More Than One Whole
	Grade 7 Module 5: Statistics and Probability

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	Topic A: Calculating and Interpreting Probabilities
	Topic B: Estimating Probabilities
	Topic C: Random Sampling and Estimating Population Characteristics
	Topic D: Comparing Populations

Grade 8

IA 1	Module 1: Transforming Geometric Objects
	Topic 1: Rigid Motion Transformations
	Topic 2: Similarity
	Topic 3: Line and Angle Relationships
IA 2	Module 2: Developing Functional Foundations
	Topic 1: From Proportions to Linear Relationships
	Topic 2: Linear Relationships
Interim Assessment 3	Topic 3: Introduction to Functions
	Topic 4: Patterns in Bivariate Data
	Module 3: Modeling Linear Equations
	Topic 1: Solving Linear Equations
	Topic 2: Systems of Linear Equations
IA 4	Module 4: Expanding Number Systems
	Topic 1: The Real Number System
	Topic 2: Pythagorean Theorem
	Module 5: Applying Powers
	Topic 1: Exponents and Scientific Notation

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	Topic 2: Volume of Curved Figures
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Algebra I

IA 1	Module 1: <i>Searching for Patterns</i>
	Topic 1: Quantities and Relationships
	Topic 2: Sequences (
	Topic 3: Linear Regressions
Interim Assessment 2	Module 2: <i>Exploring Constant Change</i>
	Topic 1: Linear Functions
	Topic 2: Solving Linear Equations and Inequalities
	Topic 3: Systems of Equations and Inequalities
	Topic 4: Functions Derived from Linear Relationships
IA 3	Module 3: <i>Investigating Growth and Decay</i>
	Topic 1: Introduction to Exponential Functions
	Topic 2: Using Exponential Equations
	Module 5: <i>Maximizing and Minimizing</i>
	Topic 1: Introduction to Quadratic Functions
Interim Assessment 4	Topic 2: Solving Quadratic Equations
	Topic 3: Applications of Quadratics
	Module 4: <i>Describing Distributions</i>
	Topic 1: One-Variable Statistics
	Topic 2: Two-Variable Categorical Data

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Algebra II

Interim Assessment 1	Unit 1: Functions and Inverse Functions (30 days)
	Investigation 1: Systems of Linear Inequalities and Linear Programming
	Investigation 2: Relations and Functions
	Investigation 3: Types of Functions
	Investigation 4: Building New Functions from Old
	Investigation 5: Composition of Functions
	Investigation 6: Inverse Functions
Interim Assessment 2	Investigation 7: Root Functions
	Unit 2: Quadratic Functions (34 days)
	Investigation 1: Transforming Quadratic Functions
	Investigation 2: Methods for Solving Quadratic Functions
	Investigation 3: Complex Numbers
	Investigation 4: Fundamental Theorem of Algebra
	Investigation 5: Modeling with Quadratic Functions
	Investigation 6: Systems of Quadratic Equations and Quadratic Inequalities
Investigation 7: Radical Equations	
Interim Assessment 3	Unit 3: Polynomial Functions (29 days)
	Investigation 0: Reviewing Key Function Families
	Investigation 1: Properties of Polynomial Functions
	Investigation 2: Polynomial Operations
	Investigation 3: Factoring Polynomials

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	Investigation 5: Application of Polynomials
	Investigation 6: Exponential Versus Polynomial Growth
Interim Assessment 4	Unit 4: The Rational and Power Functions (23 days)
	Investigation 1: Indirect Variation Functions
	Investigation 2: Modeling with Power Functions
	Investigation 3: Graphs of Rational Functions
	Investigation 4: Operations on Rational Expressions
	Investigation 5: Rational Equations

Geometry & Data

Interim Assessment 1	Unit 1: Problem Solving and Data Analysis (28 days)
	Investigation 1: One Variable Data
	Investigation 2: Numerical Two Variable Data
	Investigation 3: Drawing Conclusions
	Investigation 4: Probability
Interim Assessment 2	Unit 2: Lines, Angles, and Triangles (30 days)
	Investigation 1: The Concept of Congruence
	Investigation 2: Additional Triangle Properties
	Investigation 3: Vertical Angles and Parallel Lines
	Investigation 4: Polygon Properties
	Investigation 5: Similarity

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Interim Assessment 3	Unit 3: Right Triangles and Trigonometry (14 days)
	Investigation 1: Similarity in Right Triangles
	Investigation 2: Trigonometric Functions
	Investigation 3: Special Right Triangles
	Unit 4: Circles Part 1 (12 days)
	Investigation 1: Circles in the Coordinate Plane
	Investigation 2: Radii and Chords
	Investigation 3: Central Angles and Arcs
Interim Assessment 4	Unit 4: Circles Part 2 (17 days)
	Investigation 4: Tangents to Circles
	Investigation 5: Angle Bisectors and Inscribed Circles
	Investigation 6: Inscribed Circles and Intercepted Arcs
	Investigation 7: Circular Trigonometry
	Unit 5: Area and Volume Revisited (8 days)
	Investigation 1: Revisiting Area and Volume