HEMPSTEAD PUBLIC SCHOOLS
A COMMITMENT TO EXCELLENCE

eMATH

8th Grade Algebra

PACING CALENDAR

2024 — 2025

September

2024

SUN	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SAT
1	2	3 FIRST DAY OF SCHOOL	4   IREADY	5   IREADY	6 ALGEBRA BASELINE	7
8	9 Variables & Expressions A1-N.RN.3 Spanish Version Lesson Video	10 The Commutative & Associative Property A1-N.RN.3, A1-A.SSE.2 Spanish Version Lesson Video	11 The Distributive Property A1-A.SSE.1, A1-A.APR.1, A1-N.RN.3 Spanish Version Lesson Video	12 Equivalent Expressions A1-A.SSE.1 Spanish Version Lesson Video	13 Like Terms A1-N.RN.3, A1-A.APR.1, A1-A.SSE.1 Spanish Version Lesson Video	14
15	16 Seeing Structure in Expression A1-A.SSE.2 Spanish Version Lesson Video	17 Exponents Review NY-8.EE.1, NY-8.EE.2, A1-A.SSE.2, A1-A.SSE.3c Spanish Version Lesson Video	18 Exponents Review NY-8.EE.1, NY-8.EE.2, A1-A.SSE.2, A1-A.SSE.3c Spanish Version Lesson Video	19 Translating English to Algebra NY-7.EE.4,A1-A.SSE.1b Spanish Version Lesson Video	20 End of Unit Assessment	21
22	23 Equations & Their Solutions NY-8..EE.7, NY-8EE.7a, A1-A.REI.1a, A1-A.REI.3 Spanish Version Lesson Video	24 Using Inverse operation to solve equations NY-8..EE.7, NY-8EE.7a, A1-A.REI.1a, A1-A.REI.3	25 Solving Equations by distributing and combining like terms. A1-A.REI.1a, A1-A.REI.3 Spanish Version Lesson Video	26 Solving Equations by distributing and combining like terms. A1-A.REI.1a, A1-A.REI.3 Spanish Version Lesson Video	27 Solving Equations by distributing and combining like terms A1-A.REI.1a, A1-A.REI.3 Spanish Version Lesson Video	28
29	30 Justifying steps in solving an equation A1-A.REI.1a, A1-A.REI.3 Spanish Version Lesson Video					

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October

2024

SUN	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SAT
		1 Modeling Linear Equations A1-A.CED.1, A1-A.REI.1a, A1-A.REI.3 Spanish Version Lesson Video	2 Modeling Linear Equations with integers (consecutive integers) A1-A.CED.1, A1-A.REI.1a, A1-A.REI.3 Spanish Version Lesson Video	3 ROSH HASHANNAH	4 ROSH HASHANNAH	5
6	7 Solving equations with unspecified constraints (literal Equations) A1-A.REI.1a, A1-A.CED.4 Spanish Version Lesson Video	8 Benchmark #1	9 Solving equations with unspecified constraints (Literal equations) A1-A.REI.1a, A1-A.CED.4	10 Inequalities A1-A.REI.3 Lesson Video Spanish Version	11 Solving Linear Inequalities A1-A.REI.3 Spanish Version Lesson Video	12
13	14 COLUMBUS DAY	15 Modeling with Linear Inequalities A1-A.REI.3, A1-A.CED.1, A1-A.CED.2 Spanish Version Lesson Video	16 Sets of Numbers NY-8.F.1, A1-F.IF.1 Spanish Version Lesson Video	17 Interval Notation NY-8.F.1, A1-F.IF.1, A1-F.IF.2 Spanish Version Lesson Video	18 Introduction to Functions A1-F.IF.1, A1-F.IF.4, A1-F.IF.5,A1-F.LE.5 Spanish Version Lesson Video	19
20	21 Function Notation A1-F.IF.2, A1-F.IF.5 Spanish Version Lesson Video	22 Key Features of Functions A1-F.IF.1, A1-F.IF.4, A1-F.IF.5,A1-F.LE.5 Spanish Version Lesson Video	23 Key Features of Functions (Interpreting Graphs) A1-F.IF.4, A1-F.IF.5 Spanish Version Lesson Video	24 Working with Functions in Table Form A1-F.IF.4, A1-F.IF.5 Spanish Version Lesson Video	25 Average Rate of Change A1-F.IF.6 Spanish Version Lesson Video	26
27	28 Average Rate of Change with Motion A1-F.IF.6 Spanish Version Lesson Video	29 More work with Domain and Range A1-F.IF.3 Spanish Version Lesson Video	30 More work with Doman and Range A1-F.IF.1, A1-F.IF.4, A1-F.IF.5,A1-F.LE.5 Spanish Version Lesson Video	31 Cumulative Review A1-F.IF.1, A1-F.IF.4, A1-F.IF.5,A1- F.LE.5		

NOTES

Benchmark Standards

AI.A.APR.1
AI.N.RN.3

Benchmark 1

AI.A.APR.1
AI.N.RN.3
AI.A.REI.1a
AI.A.REI.3
AI.A.CED.1
AI.A.CED.4
AI.F.IF.2

November

2024

SUN	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SAT
					1 The Cartesian Plane NY-5.G.1, NY-5.G.2, A1-F.IF.7, A1-F.IF.7a	2
3	4 The Cartesian Plane NY-5.G.1, NY-5.G.2, A1-F.IF.7, A1-F.IF.7a	5 **ELECTION DAY**	6 Introduction to Linear Functions A1-F.IF.7, A1-F.IF.7a. A1-F.IF.6, A1-A.REI.10 Spanish Version Lesson Video	7 Linear Functions (Slope and Y-intercept) A1-F.IF.7, A1-F.IF.7a. A1-F.IF.6, A1-A.REI.10 Spanish Version Lesson Video	8 Linear Functions (Point Slope format) A1-F.IF.7, A1-F.IF.7a. A1-F.IF.6, A1-A.REI.10	9
10	11 **VETERANS DAY**	12 **Benchmark #2**	13 Linear Functions (Standard Form) A1-F.IF.7, A1-F.IF.7a. A1-F.IF.6, A1-A.REI.10	14 **½ DAY PTC**	15 Equations of Horizontal and Vertical Lines A1-F.IF.7, A1-F.IF.7a. A1-F.IF.6	16
17	18 Writing the Equation of the Line A1-F.IF.8	19 Writing the Equation of the Line A1-F.IF.8	20 Cumulative Graphing Lines A1-F.IF.7, A1-F.IF.7a. A1-F.IF.6, A1-REI.10	21 Modeling with Linear Functions A1-F.IF.8	22 Modeling with Linear Functions A1-F.IF.8	23
24	25 Absolute Value Functions A1-F.IF.7, A1-F.IF.7b	26 Introduction to Sequences A1-F.IF.3	27 **½ DAY (EVACUATION DRILL)**	28 **THANKSGIVING RECESS**	29 **THANKSGIVING RECESS**	30

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December

2024

SUN	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SAT
1	2 Arithmetic Sequence A1-F.IF.3	3 The Truth about Graphs (Truth value of equations and inequalities) A1-A.REI.10, A1-A.REI.11. A1-A.REI.12, A1-A.CED.2	4 Linear Inequalities with Two Variables A1-A.REI.12	5 Linear Inequalities with Two Variables A1-A.REI.12	6 Piecewise Linear Functions A1-F.IF.7b	7
8	9 Compound Inequalities (Constraints) A1-F.IF.7b	10 Step Functions A1-F.IF.7b	11 Solving Systems Graphically in Slope-Intercept Form NY-8.EE.8, NY-8.EE.8a, NY-8.EE.8b, A1-A-REI.6a, A1-A.REI.10, A1-A.RE1.11	12 Solving Systems Graphically in Standard Form NY-8.EE.8, NY-8.EE.8a, NY-8.EE.8b, A1-A-REI.6a, A1-A.REI.10, A1-A.RE1.11	13 Solving A System of Equations using technology NY-8.EE.8, NY-8.EE.8a, NY-8.EE.8b, A1-A-REI.6a, A1-A.REI.10, A1-A.RE1.11	14
15	16 Benchmark #3	17 System of Equations Substitution Method NY-8.EE.8, NY-8.EE.8a, NY-8.EE.8b,A1-A-REI.6a, A1-A.REI.10, A1-A.RE1.11	18 System of Equations Substitution Method NY-8.EE.8, NY-8.EE.8a, NY-8.EE.8b, A1-A-REI.6a, A1-A.REI.10, A1-A.RE1.11	19 System of Equations Elimination Method NY-8.EE.8, NY-8.EE.8a, NY-8.EE.8b, A1-A-REI.6a, A1-A.REI.10, A1-A.RE1.11	20 System of Equations Elimination Method NY-8.EE.8, NY-8.EE.8a, NY-8.EE.8b, A1-A-REI.6a, A1-A.REI.10, A1-A.RE1.11	21
22	23 HOLIDAY RECESS	24 HOLIDAY RECESS	25 HOLIDAY RECESS	26 HOLIDAY RECESS	27 HOLIDAY RECESS	28
29	30 HOLIDAY RECESS	31 HOLIDAY RECESS				

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January

2025

SUN	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SAT
			1 HOLIDAY RECESS	2 HOLIDAY RECESS	3 HOLIDAY RECESS	4
5	6 System of Equations Cumulative (Graphing, Elimination, & Substitution)NY-8.EE.8, NY-8.EE.8a, NY-8.EE.8b, A1-A-REI.6a, A1-A.REI.10, A1-A.RE1.11	7 Modeling with System of Equations NY-8.EE.8c, A1.A.CED.1, A1-A.CED.2, A1-A-REI.6a	8 Modeling with System of Equations NY-8.EE.8c, A1.A.CED.1, A1-A.CED.2, A1-A-REI.6a	9 Assessment on System of Equations NY-8.EE.8c, A1.A.CED.1, A1-A.CED.2, A1-A-REI.6a	10 System of Inequalities A1-A-RE1.12,	11
12	13 System of Inequalities A1-A-RE1.12	14 Modeling with System of Inequalities A1-A-RE1.12, A1-A.CED.2, A1-A.CED.3	15 Modeling with System of Inequalities A1-A-RE1.12, A1-A.CED.2, A1-A.CED.3	16 Arithmetic Operations with Exponents-Equivalent Exponential Expressions NY-8.EE.1, NY-8.EE.2, A1-A.SSE.2, A1-A.SSE.3c	17 Arithmetic Operations with Exponents - Simplifying Fractions Involving Expnents NY-8.EE.1, NY-8.EE.2, A1-A.SSE.2, A1-A.SSE.3c	18
19	20 MLK HOLIDAY	21 Arithmetic Operations with Exponents-Zero and Negative Exponents NY-8.EE.1, NY-8.EE.2, A1-A.SSE.2, A1-A.SSE.3c	22 Benchmark #4	23 Working with Exponents Properties NY-8.EE.1, NY-8.EE.2, A1-A.SSE.2, A1-A.SSE.3c	24 Percent Review (Percent Increase & Decrease)	25
26	27 Exponential Models Based on Percent Decay & Growth A1-F.IF.7a, A1-F.LE.1b, A1-F.LE.1c, A1-F.LE.2, A1-F.LE.3	28 Exponential Increase and Decrease (Differentiating betweent Increase and Decrease) A1-F.IF.7a, A1-F.LE.1b, A1-F.LE.1c, A1-F.LE.2, A1-F.LE.3	29 LUNAR NEW YEAR	30 Introduction to Exponential Functions A1-F.IF.7a.	31 Constructing Exponential Functions A1-F.IF.7a.	

NOTES

Benchmark Standards

AI.F.IF.1
AI.F.IF.3
AI.F.IF.4
AI.F.IF.5
AI.F.IF.6a
AI.F.IF.7
AI.F.IF.7a
AI.F.IF.8
AI.F.LE.5
AI.A.REI.10
AI.A.REI.11
AI.A.REI.12
AI.A.IF.7b

February

2025

SUN	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SAT
						1
2	3 Linear vs Exponential Functions (Differentiating) A1-F.IF.7a, A1-F.LE.1b, A1-F.LE.1c, A1-F.LE.2, A1-F.LE.3, A1-F.LE.5	4 Unit Assessment	5 Introduction to Polynomials A1-A.SSE.1, A2-A.SSE.1a, A1-A.SSE.1b	6 ½ DAY PTC	7 Cumulative Review	8
9	10 Adding, Subtracting Polynomials A1-A.APR.1	11 Adding and Subtracting Polynomials A1-A.APR.1	12 Multiplying Polynomials A1-A.APR.1	13 Multiplying Polynomials Conjugate Binomials (Difference of two squares & Perfect Squares) A1-A.APR.1	14 Multiplying Polynomials (Binomial times trinomial) A1-A.APR.1	15
16	17 WINTER RECESS	18 WINTER RECESS	19 WINTER RECESS	20 WINTER RECESS	21 WINTER RECESS	22
23	24 Factoring Polynomials (GCF) A1-A.SSE.2	25 Factoring Trinomials (Conjugate Binomials) A1-A.SSE.2	26 Factoring Perfect Square Trinomials A1-A.SSE.2	27 Factoring Trinomials A1-A.SSE.2	28 Factoring Completely A1-A.SSE.2	

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March

2025

SUN	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SAT
						1
2	3 UNIT EXAM	4 Square Roots	5 Rational & Irrational Numbers	6 Operations on Rational & Irrational Numbers	7 Operations on Rational & Irrational Numbers	8
9	10 Introduction to Quadratic Functions (Characteristics of Quadratic Functions)	11 Introduction to Quadratic Functions (Characteristics of Quadratic Functions)-	12 Solving Quadratic Equations (Zero Product Law- Solving by factoring)	13 Solving Quadratic Equations (Zero Product Law- Solving by factoring)	14 Solving Quadratics by Completing the Square (Solving for C)	15
16	17 Solving Quadratic Equations by Completing the Square	18 Benchmark #5	19 Solving Quadratic Equations with Irrational Solutions (Simplifying Radicals)	20 Solving Quadratic Equations using the Quadratic Formula	21 Solving Quadratic Equations using the Quadratic Formula	22
23	24 Solving Quadratic Equations All three methods	25 Solving Quadratic Equations All three methods	26 Unit Assessment	27 Geometric Sequence	28 Geometric Sequence	29
30	31 Parent Functions					

NOTES

April

2025

SUN	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SAT
		1 Vertical & Horizontal Shifting of Functions	2 Vertical & Horizontal Shifting of Functions	3 Combining Shifting of Functions	4 Vertical Stretching & Compression of Functions	5
6	7 Vertical Stretching & Compression of Functions	8 Reflecting Functions across the x-axis	9 The Vertex form of Quadratics	10 The Vertex Form of Quadratics	11 Cumulative Assessment	12
13	14 SPRING RECESS	15 SPRING RECESS	16 SPRING RECESS	17 SPRING RECESS	18 SPRING RECESS	19
20	21 The Purpose of Statistics (Measures of Central Tendency- Mean, median, mode, range, maximum and minimum)	22 The Purpose of Statistics (Characteristics of Box Plot) & Comparing Samples	23 The Purpose of Statistics (Characteristics of Dot Plot) & Comparing Samples	24 The Purpose of Statistics (Characteristics of Histogram) & Comparing Samples	25 The Standard Deviation of a Data Set	26
27	28 The Standard Deviation of a Data Set	29 Categorical Data (Frequency Tables)	30 Categorical Data (Frequency Tables)			

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May

2025

SUN	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SAT
				1 Bivariate Data Analysis (Scatter plot & Line of best fit & Positive and negative correlation)	2 Bivariate Data Analysis (Scatter plot & Line of best fit & Positive and negative correlation	3
4	5 ½ DAY PTC	6 Linear Regression	7 Linear Regression (Strength of Correlation)	8 Linear Regression (Strength of Correlation)	9 **Unit Assessment**	10
11	12 Regents Review	13 Regents Review	14 Regents Review	15 Regents Review	16 Regents Review	17
18	19 Regents Review	20	21	22	23	24
25	26 MEMORIAL DAY	27	28	29	30	31

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June

2025

SUN	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SAT
1	2 Regents Review	3 Regents Review	4 Regents Review	5	6	7
8	9 Regents Review	10 BIOLOGY SCIENCE REGENTS @9:15am	11	12	13	14
15	16	17	18 ALGEBRA REGENTS @ 12:15pm	19 JUNETEENTH	20	21
22	23	24	25	26	27 LAST DAY OF SCHOOL	28
29	30					

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