Day	Date	Section	Topic	Standard	Notes/Enrichment				
			TOPIC 6: Expo	nents and Expor	nential Functions				
Highe	gher Order Questions:								
2.	exponent expr Explain the cor	essions? nnection betwe	ply the appropriate property to simplify een radicals and exponents. ential equation to represent a real-world	Vocabulary: exponents, growth, decay, geometric sequence, common ratio, exponential functions, constant ratio, growth or	Skills Previously Taught: • Properties of Exponents				
4. 5.	·		ry situation never equal zero? etric sequence to find a term in the	decay factor, asymptote, rational exponent, radical					
1	A: 1/7 B: 1/8		Flex Day for Winter MAP Testi	ing					
2	A : 1/9 B : 1/10	6.0	Properties of Exponents (supplement)	8.EE.1, N.1					
3	A: 1/13 B: 1/14	6.0	Properties of Exponents (supplement)	8.EE.1, N.1					
4	A: 1/15 B: 1/16	6.1	Rational Expressions/STEM	N.1, N.2					
5	A : 1/17 B : 1/21	6.2	Radical Expressions	N.2					
6	A : 1/22 B : 1/23	6.3	Exponential Functions	F.5b, F.6, F.14, A.15	ADD AVERAGE RATE OF CHANGE				
7	A: 1/24 B: 1/27	6.4	Exponential Growth and Decay	N.6, F.5b, F.11c, A.15	3 ACT Math Task (one per unit) 3 ACT Math Task Dan Meyer				
8	A : 1/28 B : 1/29	6.5	Geometric Sequences	F.6a, F.7, F.12					

9	A: B:	1/30 1/31		Review Topic 6		
10	A: B:	2/3 2/4		Topic 6 Test (Exponents and Exponentia		
				TOPIC 7: Polyr	nomials	
_		der Questio				
	•		o name a polynor			Skills Previously Taught:
2.		w can the Ultiplication	•	ty be applied to polynomial	Vocabulary: polynomials,	 number theory in Grade 6, including prime, composite, factors,
3.		•		n factoring and multiplying?	terms, degrees, factor, greatest common factor,	factor pairs
			•	ers help you to factor the quadratic	trinomial, quadratic, standard	racioi pans
		nomial?			form	
5.	. Но	w can you	use factoring by g	grouping to factor a quadratic trinomial?		
11	A:	2/5	7.1	Adding and Subtracting Daly appials	A.1, A.3, A.5	Algebra-Tiles and continue
11	B:	2/6	7.1	Adding and Subtracting Polynomials	A.1, A.3, A.3	Cover vocab in new standard <u>7.1 Doodle Notes</u>
12	A: B:	2/7 2/10	7.2/7.3	Multiplying Polynomials/Multiplying Special Cases	A.2, A.5	
13	A: B:	2/11 2/12	7.4	Factoring Polynomials (Factoring out the GCF)	A.10(+), A.11(+)	
14	A: B:	2/13 2/14	7.4	Factoring by Grouping (supplement)	A.10(+), A.11(+)	
15	A: B:	2/18 2/19	7.5	Factoring $x^2 + bx + c$	A.10(+), A.11(+)	7.5, 7.6, 7.7 and 3ACT can be taught in any order per teacher discretion.
16	A: B:	2/20 2/21	7.6	Factoring $ax^2 + bx + c$	A.10(+), A.11(+)	3 ACT Math Task (one per unit)
17	A: B:	2/24 2/25	7.7	Factoring Special Cases	A.10(+), A.11(+)	3 ACT Main Task (one per only)

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18	A: B:	2/26 2/27		Review Topic 7					
19	A: B:	2/28 3/3		Topic 7 Test (Polynomials and Fac					
				dratic Functions					
minimum by looking at the equation?					Vocabulary: axis of symmetry, quadratic function, vertex, vertex form, parabola, standard form	Skills Previously Taught:			
20	A: B:	3/4 3/5	8.5	Linear, Exponential, and Quadratic Models	F.11a, b, F.13	(can teach at the beginning or end of unit) ADD AVERAGE RATE OF CHANGE			
21	A: B:	3/6 3/7	8.1	Key Features of a Quadratic Function	F.5, F.8	STEM (one per semester)			
22	A: B:	3/10 3/11	8.2/8.3	Quadratic Functions in Vertex Form and in Standard Form	F.4, F.8	3 ACT Math Task (one per unit)			
23	A: B:	3/12 3/13		Topic 8 Review					
24	A: B:	3/17 3/18		Topic 8 Test (Quadratic Functions)					
25	A: B:	3/19 3/20		FLEX Day for ACT					

TOPIC 9: Quadratic Equations

Highe	er Order Questions:							
1.	Exp	olain when e	ach method of s	solving quadratic equations would be				
	bes	st.			Vocabulary: quadratic	Skills Previously Taught:		
2.	Giv	en the grap	h of a quadratic	, explain how to write the equation in	equation, zeros of a function,	 simplifying square roots when the 		
		tored form	•	` '	zero-product property,	radicand is a perfect square		
3.			tionship hotwoo	n factoring and multiplying?	product property of square	solving quadratics by taking the		
			· ·		roots, completing the square	square root when the radicand is a		
4.		•	·	dratic have? How can this be	(8 th grade), discriminant,	·		
	det	termined from	m the discrimina	nt?	quadratic formula, root,	perfect square		
5.	Нол		rite a auadratic	equation that models a situation?	linear-quadratic system			
J.	5. How can you write a quadratic equation that models a situation?				i i			
	A:	3/21		1		STEM (one per semester)		
٠,	B:	0,21	9.1	Solving Quadratic Equations Using	A.3, A.7, A.19	T-shirt Launcher Suggested		
26	3/24	7.1	Graphs and Tables	A.3, A.7, A.19	Note: Relate every method back to 9.1 where the			
						x-intercepts		
	A:	3/25	9.2 and 6.2 if not taught previously	Solving Quadratic Equations by Factoring A.3, A.7, A.19	A.3, A.7, A.19	STEM (one per semester)		
27						T-shirt Launcher Suggested		
	B:	3/26				Note: Relate every method back to 9.1 where the x-intercepts		
	A:	3/27				Can be taught in Topic 8 or 9		
28	B:	3/28	Supplement	Rewriting Radicals	N.2	(teacher preference)		
	A:	3/31	0.0.110	Solving Quadratic Equations Using		, , , , , , , , , , , , , , , , , , , ,		
29			9.3 - HS	Square Roots for HS students	A.19	(+) Middle School add completing the		
	B:	4/1	9.4 - MS	Completing the Square for MS students		square		
30	A:	4/2		Ougaration FAI		Can be done at any time is writ		
30	B:	4/3		Quadratics FAL		Can be done at any time in unit		
31	A:	4/4	4/4 ELEV Day for Povious for Ponchmark Standard Assessment (FLEV DAY (Spring AAAD for students not at the 70th personal)					
اد	B:	4/14	FLEX Day for Review for Benchmark Standard Assessment/FLEX DAY/Spring MAP for students not at the 70th percentile					
32	A:	4/15		FLEY Day for Spring Ronchm	ark Standard Assessment Windo	av ground Pi Day		
32	B:	4/16	FLEX Day for Spring Benchmark Standard Assessment Window around Pi Day					

33	A: B:	4/17 4/18	9.5	The Quadratic Formula and the Discriminant	A.19, N.6	
34	A: B:	4/21 4/22	9.5	The Quadratic Formula and the Discriminant	A.12	
35	A: B:	4/23 4/24	9.6	Solving Systems of Linear and Quadratic Equations	A.21, A.24	3 ACT Math Task (one per unit)
36	A: B:	4/25 4/28		Topic 9 Review		
37	A: B:	4/29 4/30		Topic 9 Test (Solving Quadratic Equ		

TOPIC 11: Statistics

Higher	Order	Questions:
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- 1. How can you determine the best plot for the data?
- 2. Can you compare different types of data displays together?
- 3. How can a model help me represent and investigate relationships between varying quantities?
- 4. Why is it important interpret standard deviation with a set of data in real world situation?

Vocabulary: normal distribution, standard deviation, stem plot, dot plot, histogram, box plot, measure of center, spread, outlier, variance, mean, median, interquartile range, range, mode, skew

Skills Previously Taught:

- Finding mean, median, mode (quantitative measures of center)
- Construct stem and leaf plots, box plots, dot plots and histograms

38	A: B:	5/1 5/2	11.0	Measures of Center and Spread	SP.1	Creating stem plots, dot plots, histograms and box plots (review from 6 th grade)
39	A: B:	5/5 5/6	11.1/11.2	Analyzing Data Displays/ Comparing Data Sets	SP.2	STEM (one per semester)
40	A: B:	5/7 5/8	11.3/11.4	Interpreting the Shapes of Data Displays Standard Deviation	SP.3	
41	A: B:	5/9 5/12	11.5	Two-Way Frequency Tables	SP. 5	3 ACT Math Task (one per unit)

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42	A: B:	5/13 5/14	Topic 11 Test (Statistics)	
43	A: B:	5/15 5/16	Final Review	
44	A: B:	5/19 5/21	Final Review	
45	A: B:	5/22 5/23	FINALS	
46	A: B:	5/27 5/28	FINALS	

*Bold Section Number – enduring skill to be reinforced throughout the course **BENCHMARK STANDARDS ASSESSMENT (April)**

Quizzes are at teacher discretion, some schools are giving lesson quizzes instead of unit quizzes FAL (Formative Assessment Lesson) – 1 per semester STEM Project – 1 per semester 3 ACT Math Task – 1 per unit

(+) Solving Quadratics by Completing the Square is ONLY taught in Middle School