


Mathematics – Advanced Quantitative Reasoning (AQR)

2021-2022 Pacing Calendar

Units of Instruction

**Unit 1 - Decision Making in Finance:
Future Value of Investments**
 Students study future value to build investments.

2021		August				
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
01	02	03	04	05	06	07
	Enrichment Opportunities					
08	09	10	11	12	13	14
	Enrichment Opportunities					
15	16	17	18	19	20	21
	Teacher Service Days (no students)		Teacher Prep Day (no students)	Teacher Service Days (no students)		
22	23	24	25	26	27	28
		Unit 1 (8 45-min. class periods)				
29	30	31	01	02	03	04
	Unit 1 (8 45-min. class periods)					
05	06	Notes: Aug. 16-20 - Teacher Service Days (no students)				

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- Units of Instruction**
- Unit 2 - Decision Making in Finance: Present Value of Investments**
Students study present value to build investments.
- Unit 3 - Building an Investment**
Students examine the expected value of an investment based on the probability of future value.
- Unit 4 - Using Credit**
Students analyze real-world scenarios involving credit card debt, financing, and budgeting.

2021		September					
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	
29	30	31	01 Unit 1 (8 45-min. class periods)	02	03 • Extend • Review • Assess • Reteach	04	
05	06 Labor Day	07 Unit 2 (6 45-min. class periods)	08	09	10	11	
12	13 Unit 2 (6 45-min. class periods)	14	15 • Extend • Review • Assess • Reteach	16 Fall Holiday	17 Teacher Service Day (no students)	18	
19	20 Unit 3 (6 45-min. class periods)	21	22	23	24	25	
26	27 Unit 3 (6 45-min. class periods)	28 Unit 4 (8 45-min. class periods)	29	30	01	02	
03	04	Notes: Sept. 6 - Labor Day Sept. 16 - Fall Holiday Sept. 17 - Teacher Service Day (no students)					

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Units of Instruction

Unit 4 - Using Credit

Students analyze real-world scenarios involving credit card debt, financing, and budgeting.

Unit 5 - Analysis of Numerical Data by Estimating Large Numbers

Students analyze numerical data by estimating large numbers using proportionality.

Unit 6 - Ratios and Numerical Data

Students analyze numerical data using ratios.

Unit 7 - Indices Using Weighted Sums and Averages

Students analyze numerical data by using weighted sums and weighted averages.

2021		October					
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	
26	27	28	29	30	01 Unit 4 (8 45-min. class periods)	02 END OF CYCLE 1	
03	04 Teacher Service Day (no students)	05 Unit 4 (8 45-min. class periods)	06	07	08	09	
10	11 Unit 5 (4 45-min. class periods)	12	13	14	15 • Extend • Review • Assess • Reteach	16	
17	18 Unit 6 (6 45-min. class periods)	19	20	21	22	23	
24	25 Unit 6 (6 45-min. class periods)	26 Unit 7 (4 45-min. class periods)	27	28	29	30	
31	01	Notes: Oct. 4 - Teacher Service Day (no students)					

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Units of Instruction

Unit 8 - Identification Numbers

Students analyze numerical data to validate identification numbers.

Unit 9 - Probability Using Diagrams

Students analyze Venn diagrams and tree diagrams to determine probabilities.

Unit 10 - Decisions Based on Probabilities

Students analyze probabilities involving everyday events and decisions.

2021	November					
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
31	01 Unit 8 (4 45-min. class periods)	02	03	04	05 • Extend • Review • Assess • Reteach	06
07	08 Unit 9 (8 45-min. class periods)	09	10	11	12 • Extend • Review • Assess • Reteach	13 END OF CYCLE 2
14	15 Unit 9 (8 45-min. class periods)	16	17	18	19 • Extend • Review • Assess • Reteach	20
21	22-26 Thanksgiving					27
28	29 Unit 10 (6 45-min. class periods)	30	01	02	03	04
05	06	Notes: Nov. 22-26 - Thanksgiving Break				

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- Units of Instruction**
- Unit 10 - Decisions Based on Probabilities**
 Students analyze probabilities involving everyday events and decisions.
- Unit 11 - Probability with Expected Value**
 Students analyze expected value for mathematical fairness.
- Unit 12 - Statistical Studies and Investigations**
 Through various methods of investigating data, students analyze data studies for accuracy and bias.

2021		December					
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	
28	29	30	01 Unit 10 (6 45-min. class periods)	02	03	04	
05	06 Unit 10 (6 45-min. class periods)	07 Unit 11 (4 45-min. class periods)	08	09	10	11	
12	13 • Extend • Review • Assess • Reteach	14 Unit 12 (6 45-min. class periods)	15	16	17 • Extend • Review • Assess • Reteach	18	
19	20	21	22	23	24	25	
	Enrichment Opportunities		Winter Break				
26	27	28	29	30	31	01	
	Winter Break						
02	03	Notes: Dec. 20-31 - Winter Break					

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Units of Instruction

Unit 12 - Statistical Studies and Investigations

Through various methods of investigating data, students analyze data studies for accuracy and bias.

Unit 13 - Analyzing Data

Students analyze the appropriateness and usefulness of graphical displays.

2022		January					
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	
26	27	28	29	30	31	01	
02	03 • Extend • Review • Assess • Reteach	04 Unit 12 (6 45-min. class periods)	05	06	07 • Extend • Review • Assess • Reteach	08	
09	10 	11 	12 	13 	14 	15 END OF CYCLE 3	
16	17 Martin Luther King, Jr. Day	18 Teacher Prep Day (no students)	19 Unit 13 (8 45-min. class periods)	20	21	22	
23	24 Unit 13 (8 45-min. class periods)	25	26	27	28	29	
30	31 • Extend • Review • Assess • Reteach	Notes: Jan. 17 - Martin Luther King, Jr. Day Jan. 18 - Teacher Preparation Day (no students)					

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Units of Instruction

Unit 14 - Statistical Studies: Source of Variability

Students investigate sources of statistical bias and variability.

Unit 15 - Recursion in Modeling: Relationships in Data

Students study recursion relationships in data and various representations from linear models.

Unit 16 - Recursion in Exponential Growth and Decay

Students study recursion relationships in data and various representations from exponential models.

2022		February				
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
30	31	01 Unit 14 (6 45-min. class periods)	02	03	04	05
06	07 Unit 14 (6 45-min. class periods)	08	09 • Extend • Review • Assess • Reteach	10 Unit 15 (4 45-min. class periods)	11	12
13	14 Unit 15 (4 45-min. class periods)	15	16 Unit 16 (6 45-min. class periods)	17	18	19
20	21 Teacher Service Day (no students)	22 Unit 16 (6 45-min. class periods)	23	24	25 • Extend • Review • Assess • Reteach	26 END OF CYCLE 4
27	28 • Extend • Review • Assess • Reteach	01	02	03	04	05
06	07	Notes: Feb. 21 - Teacher Service Day (no students)				

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Units of Instruction

Unit 17 - Recursion Using Rate of Change
Students study recursion relationships in data and various representations with rate of change.

Unit 18 - Recursion in Cyclical Modeling
Students study recursion relationships in data and various representations from cyclical models.

Unit 19 - Functions in Models: Regression in Linear and Nonlinear Functions
Students study regression relationships in linear and nonlinear functions.

2022		March				
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
27	28	01 Unit 17 (8 45-min. class periods)	02	03	04	05
06	07 Unit 17 (8 45-min. class periods)	08	09	10	11 • Extend • Review • Assess • Reteach	12
13	14	15	16	17	18	19
	Enrichment Opportunities			Spring Break		
20	21 Unit 18 (4 45-min. class periods)	22	23	24	25 • Extend • Review • Assess • Reteach	26
27	28 Chávez / Huerta Day	29 Unit 19 (6 45-min. class periods)	30	31	01	02
03	04	Notes: Mar. 14-18 - Spring Break Mar. 28 - César Chávez/Dolores Huerta Day				

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Units of Instruction

Unit 19 - Functions in Models: Regression in Linear and Nonlinear Functions

Students study regression relationships in linear and nonlinear functions.

Unit 20 - Functions in Models: Cyclical Functions

Students study regression relationships in cyclical functions.

Unit 21 - Step and Piecewise Functions

Students study regression relationships in linear, nonlinear, and cyclical functions.

2022		April				
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
27	28	29	30	31	01 Unit 19 (6 45-min. class periods)	02
03	04 Unit 19 (6 45-min. class periods)	05	06 • Extend • Review • Assess • Reteach	07 Unit 20 (6 45-min. class periods)	08	09
10	11 Unit 20 (6 45-min. class periods)	12	13	14	15 Spring Holiday	16
17	18 Unit 21 (8 45-min. class periods)	19	20	21	22 • Extend • Review • Assess • Reteach	23 END OF CYCLE 5
24	25 Unit 21 (8 45-min. class periods)	26	27	28	29 • Extend • Review • Assess • Reteach	30
01	02	Notes: Apr. 15 - Spring Holiday				

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Units of Instruction

Unit 22 - Networks, Circuit, Paths, and Graph Structures Students develop networks and graphs to solve real-world situations.

Unit 23 - Spanning Trees Students develop graphs and spanning trees to solve real-world situations.

Unit 24 - Graph Coloring Students create maps conforming to coloring properties.

Unit 25 - PERT Charts Students analyze activity graphs using Program Evaluation and Review Technique (PERT) charts.

2022		May				
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
01	02 Unit 22 (4 45-min. class periods)	03	04	05	06 • Extend • Review • Assess • Reteach	07
08	09 Unit 23 (4 45-min. class periods)	10	11	12	13 • Extend • Review • Assess • Reteach	14
15	16 Unit 24 (4 45-min. class periods)	17	18	19	20 • Extend • Review • Assess • Reteach	21
22	23 Unit 25 (4 45-min. class periods)	24	25	26	27 • Extend • Review • Assess • Reteach	28
29	30 Memorial Day	31 • Extend • Review • Assess • Reteach	01	02	03	04
05	06	Notes: May 30 - Memorial Day				

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Pacing Calendar
Units of Instruction**

2022		June				
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
29	30	31	01 	02 	03 	04
05	06 	07 	08 Teacher Prep Day (no students) END OF CYCLE 6	09	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	01	02
03	04	Notes: Jun. 8 - Teacher Preparation Day (no students)				