Kindergarten Math Curriculum Sequence

Topic:				
Readiness				
Pacing Guide	**Domain**	**Code**	**Objectives**	**Resource**
1	Readiness	PK	Matching one-to-one	SF 1-1m
1	Readiness	PK	Does not belong	SF 1-1n
1	Readiness	PK	Colors	SF1-10
1	Readiness	K.G.2	Shapes	SF1-1p
Total Days = 4				
Topic:				
Chapter1 Position/Sorting				
Pacing Guide	**Domain**	**Code**	**Objectives**	**Resource**
1	Geometry	K.G.1	Inside and Outside	SF 1:1-1
1	Geometry	K.G.1	Over, under, and on	SF 1:1-2
1	Geometry	K.G.1	Top, middle, and Bottem	SF 1:1-3
1	Geometry	K.G.1	Left and Right	SF 1:1-4
1	Geometry	1.G.1, K.MD.3,K.G.4	Same and Different	SF 1:1-5
1	Geometry	1.G.1,K.MD.3, K.G.4	Sorting by 1 attribute	SF 1:1-6
1	Geometry	1.G.1, K.MD.3,K.G.4	Sorting the same set in diffent ways	SF 1:1-7
1	Geometry	1.G.1, K.MD.3,K.G.4	Sorting by more than one attribute	SF 1:1-8
1	Geometry	1.G.1, K.MD.3,K.G.4	logical reasoning:Find the sorting rule	SF 1:1-9
1	Geometry	1.G.1, K.MD.3,K.G.4	problem solving: skill application	SF 1:1-10
Total Days = 10				
Topic:				
Chapter 2:Graphing/Patterns				
Pacing Guide	**Domain**	**Code**	**Objectives**	**Resource**
1	Measurement & Data	K.CC.6	As Many, More, and Fewer	SF 1:2-1
1	Measurement & Data	K.MD.2, K.MD.3	Real Graphs	SF 1:2-2
1	Measurement & Data	K.MD.2, K.MD.3	Picture Graphs	SF 1:2-3
1	Measurement & Data	K.MD.2, K.MD.3, 1.MD.4	Bar Graphs	SF 1:2-4
1	Measurement & Data	K.CC.4	Sound and Movement Patterns	SF 1:2-5
1	Measurement & Data	K.OA.2	Color Patterns	SF 1:2-6
1	Measurement & Data	K.G.1,K.G.2	Shape Patterns	SF 1:2-7
2	Measurement & Data	K.NBT.1	Comparing Patterns	SF 1:2-8

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2	Measurement & Data		Look for a Pattern	SF 1:2-9
1	Measurement & Data		Creating Patterns	SF 1:2-10
1	Measurement & Data	1.MD.4	Using Graphs to Answer questions	SF 1:2:11
Total Days = 12				
Topic:				
Chapter 3: Numbers 0-5				
Pacing Guide	**Domain**	**Code**	**Objectives**	**Resource**
1	Counting & Cardinality	K.CC.1, K.CC.4,K.CC.5	Counting 1,2,3	SF 1:3-1
1	Counting & Cardinality	K.CC.3	Reading and Writing 1,2,3	SF 1:3-2
1	Counting & Cardinality	K.CC.1,K.CC.4,K.CC.5	Counting 4 and 5	SF 1:3-3
1	Counting & Cardinality	K.CC.3	Reading and Writing 4 and 5	SF 1:3-4
1	Counting & Cardinality	K.CC.3	Reading and Writing 0	SF 1:3-5
1	Counting & Cardinality	K.CC.7	Comparing Numbers through 5	SF 1:3-6
1	Counting & Cardinality	K.CC.6	Finding the most and fewest by making a graph	SF 1:3-7
2	Counting & Cardinality	K.CC.1	Ordinal numbers through fifth	SF 1:3-8
1	Counting & Cardinality	K.CC.1	Soriting and Counting	SF 1:3-9
		K.CC.5,K.CC.6		
Total Days = 10				
Topic:				
Chapter 4:Numbers to 10				
Pacing Guide	**Domain**	**Code**	**Objectives**	**Resource**
1	Counting & Cardinality	K.CC.1,K.CC.4,K.CC.5	Counting 6 and 7	SF 2:4-1
1	Counting & Cardinality	K.CC.1,K.CC.4,K.CC.5	Counting 8	SF 2:4-2
1	Counting & Cardinality	K.CC.3	Read and write 6,7,8	SF 2:4-3
1	Counting & Cardinality	K.CC.1,K.CC.4,K.CC.5	Counting 9 and 10	SF 2:4-4
1	Counting & Cardinality	K.CC.3	Read and write 9 and 10	SF 2:4-5
1	Counting & Cardinality	K.CC.6, K.CC.7	Comparing numbers through 10	SF 2:4-6
1	Counting & Cardinality	K.CC.6, K.CC.7	Comparing numbers to 5 and 10	SF 2:4-7
1	Counting & Cardinality	K.CC.1	Ordering numbers 0 through 10	
1	Counting & Cardinality	K.CC.1	Ordinal numbers through tenth	SF 2:4-8
2	Counting & Cardinality		Growing Patterns	SF 2:4-9
1	Counting & Cardinality	K.CC.6	Are there enough	SF 2:4-10
Total Days = 12				

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Topic:				
Chapter 5: Numbers to 31				
Pacing Guide	**Domain**	**Code**	**Objectives**	**Resource**
1	Counting & Cardinality	K.CC.1,K.CC.2,K.CC.4,K.CC5	Counting 11-20	SF 2:5-1
1	Counting & Cardinality	K.CC.3,K.CC.2	Reading and Wrtiting 11-12	SF 2:5-2
1	Counting & Cardinality	K.CC.3,K.CC.2	Read and Write 13,14, and 15	SF 2:5-3
1	Counting & Cardinality	K.CC.3,K.CC.2	Read and Write 16 and 17	SF 2:5-4
1	Counting & Cardinality	K.CC.3,K.CC.2	Read and Write 18,19,20	SF 2:5-5
1	Counting & Cardinality	K.CC.2	Skip Counting by 2s and 5s	SF 2:5-6
1	Counting & Cardinality	K.CC.1,K.CC.2,K.CC.4,K.CC5	Counting to 31	SF 2:5-7
1	Counting & Cardinality	K.CC.2, K.CC.3	Read and Write numbers to 31	SF 2: 5-8
1	Counting & Cardinality	K.MD.2	Using estimation	SF 2:5-9
1	Counting & Cardinality	K.CC.6	Comparing numbers to 31	SF 2:5-10
1	Counting & Cardinality	K.CC.2, K.CC.3	Numbers on a Calendar	SF 2:5-11
1	Counting & Cardinality	K.CC.4,K.MD.3	Tallying results and making a table	SF 2:5-12
1	Counting & Cardinality	K.CC.2,K.CC.3K.CC.4,K.CC.5,K.CC.6	Counting Review	SF 2:5-13
Total Days =13				
Topic:				
Chapter 9 Readiness for addition and subtraction				
Pacing Guide	**Domain**	**Code**	**Objectives**	**Resource**
1	perations & Algebraic Thinki	K.OA.3	Ways to make four and five	SF 3:9-1
1	perations & Algebraic Thinki	K.OA.3	Ways to make six and seven	SF 3:9-2
1	perations & Algebraic Thinki	K.OA.3	Ways to make eight and nine	SF 3:9-3
1	perations & Algebraic Thinki	K.OA.3	Ways to make ten	SF 3:9-4
1	perations & Algebraic Thinki	K.OA.3,K.OA.1	Make an organized list	SF 3:9-5
1	perations & Algebraic Thinki	K.OA.2,K.OA.1	One more and two more	SF 3:9-6
1	perations & Algebraic Thinki	K.OA.2,K.OA.1	One fewer and two fewer	SF 3:9-7
1	perations & Algebraic Thinki	K.OA.1,K.OA.2,K.OA.3	Problem solving: Addition and Subtration Skills	SF 3:9-8
Total Days = 8				
Topic:				

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Chapter 10:Understanding addition				
Pacing Guide	**Domain**	**Code**	**Objectives**	**Resource**
1	perations & Algebraic Thinki	K.OA.1,K.OA.2	Stories about Joining	SF 4 :10-1
1	perations & Algebraic Thinki	K.OA.1,K.OA.2,K.CC.2	Joining Groups	SF 4 :10-2
1	perations & Algebraic Thinki	K.OA.1,K.OA.2	Draw a Picture to solve the Problem	SF 4 :10-3
1	perations & Algebraic Thinki	K.OA.3	using the plus sign	SF 4 :10-4
1	perations & Algebraic Thinki	K.OA.3, K.OA.2,K.OA.4	Finding the sum	SF 4 :10-5
1	perations & Algebraic Thinki	K.OA.3, 1.OA.5, K.OA.4	Addition sentences	SF 4 :10-6
1	perations & Algebraic Thinki	K.MD.3, 2.MD.8	Adding pennies	SF 4 :10-7
1	perations & Algebraic Thinki	OA.2,K.OA.3,K.MD.3,2.MD.8,K.OA	Problem Solving Skill Application	SF 4 :10-8
Total Days = 8				
Topic:				
Chapter 11: Understanding Subtraction				
Pacing Guide	**Domain**	**Code**	**Objectives**	**Resource**
1	perations & Algebraic Thinki	K.OA.1,K.OA.2	Seperating How Many are Left	SF 4:11-1
1	perations & Algebraic Thinki	K.OA.1,K.OA.2,K.OA.3	Take away	SF 4:11-2
1	perations & Algebraic Thinki	K.CC.6,K.CC.7	Comparing More or Fewer	SF 4:11-3
1	perations & Algebraic Thinki	K.NBT.1,K.OA.3	Using the Minus Sign	SF 4:11-4
2	perations & Algebraic Thinki	OA.2,K.OA.1,K.OA.3,1.OA.7,K.OA	Finding the difference	SF 4:11-5
2	perations & Algebraic Thinki	K.OA.2,K.OA.1,K.OA.3,1.OA.7	Subraction sentences	SF 4:11-6
1	perations & Algebraic Thinki	OA.2,K.OA.1,K.OA.3,1.OA.7,2.MD	Subtracting Pennies	SF 4:11-7
1	perations & Algebraic Thinki	1.OA.7,K.OA.5	Choosing an Operation	SF 4:11-8
1	perations & Algebraic Thinki	.MD.3,2.MD.8,K.OA.4,K.OA.5,K.C	Problem Solving Skill Application	SF 4:11-9
Total Days = 11				
Topic:				
Chapter 12:Counting and Number Patterns to 100				
Pacing Guide	**Domain**	**Code**	**Objectives**	**Resource**
1	umbers & Operations Base 1	K.CC.1	Counting Groups of 10	SF 4:12-1
1	umbers & Operations Base 1	K.CC.1,K.CC.2,K.CC.4	Numbers to 100	SF 4:12-2
1	umbers & Operations Base 1	K.CC.2,K.CC.5	Counting Large Quantities	SF 4:12-3
1	umbers & Operations Base 1	K.CC.1,K.CC.2	2s, 5s 10s on the Hundreds Chart	SF 4:12-4
1	umbers & Operations Base 1	K.CC.1,K.CC.2	Counting by 2s, 5s, 10s	SF 4:12-5
1	umbers & Operations Base 1	K.CC.1,K.CC.2,1.NBT.2,1.NBT.3	Look For a Pattern	SF 4:12-6

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2	umbers & Operations Base 1	1,K.CC.2,K.CC.4,K.CC.5,1.NBT.2,1.I	Problems Solving things that Come in 10s	SF 4:12-8
Total Days = 8				
Topic:				
Chapter 6:Measurment				
Pacing Guide	**Domain**	**Code**	**Objectives**	**Resource**
1	Measurement & Data	K.MD.2, 1.MD.1	Compare and order by size	SF 2:6-1
1	Measurement & Data	K.MD.2, 1.MD.1	Comparing by length	SF 2:6-2
1	Measurement & Data	1.MD.1	Ordering by length	SF 2:6-3
1	Measurement & Data	1.MD.2	Measuring length	SF 2:6-4
1	Measurement & Data	1.MD.2,K.MD.2	Estimating and Measuring length	SF 2:6-5
1	Measurement & Data	1.MD.2	Covering a shape to find SA	SF 2:6-7
1	Measurement & Data	K.MD.2, 1.MD.1	Comparing and Ordering by Capacity	SF 2:6-8
1	Measurement & Data	K.MD.2, 1.MD.2	Estimating and Measuring Capacity	SF 2:6-9
1	Measurement & Data	K.MD.2,1.MD.1	Comparing and Ordering by weight	SF 2: 6-10
1	Measurement & Data	K.MD.2, 1.MD.2	Estimiating and Measuring by wieght	SF 2:6-11
1	Measurement & Data	K.MD.2	Temperature	SF 2:6-12
1	Measurement & Data	K.MD.1,K.MD.2,1.MD.1,1.MD.2	Problem Solving Skill Application	SF 2:6-13
Total Days = 12				
Topic:				
Chapter:7 Time and Money				
Pacing Guide	**Domain**	**Code**	**Objectives**	**Resource**
1	Measurement & Data		Days of the Week	SF:3:7-1
1	Measurement & Data		Yesterday, Today, Tomorrow	SF:3:7-2
1	Measurement & Data		Months and Season	SF:3:7-3
1	Measurement & Data		Calendar	SF:3:7-4
1	Measurement & Data		Ordering Events	SF:3:7-5
1	Measurement & Data		Time of Day	SF:3:7-6
1	Measurement & Data	1.MD.3	Telling Time on a Analog Clock	SF:3:7-7
1	Measurement & Data	1.MD.3	Telling Time on a Digital Clock	SF:3:7-8
1	Measurement & Data	K.MD.2	More Time and Less Time	SF:3:7-9
1	Measurement & Data	K.CC.1	Penny	SF:3:7-10
1	Measurement & Data	K.CC.2,K.MD.3,K.OA.1,K.NBT.1	Nickle	SF:3:7-11
1	Measurement & Data	K.CC.2,K.MD.3,K.OA.1,K.NBT.1	Dime	SF:3:7-12
2	Measurement & Data	K.NBT.1	Problem solving by acting it out	SF:3:7-13

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1	Measurement & Data	K.CC.2,K.MD.3,K.OA.1,K.NBT.1	Quarter/Dollar	SF:3:7-14
1	Measurement & Data	K.CC.6	Comparing Values	SF:3:7-15
1	Measurement & Data	CC.2,K.CC.6,K.MD.2,K.MD.3,K.OA.	Skill Application and Problem Solving	SF:3:7-16
Total Days = 17				
Topic:				
Chapter 8:Geometry and Fractions				
Pacing Guide	**Domain**	**Code**	**Objectives**	**Resource**
1	Geometry	K.G.4.K.G.5	Solid Figures	SF 3:8-1
1	Geometry	K.G.4.K.G.5	Comparing Solid Figures	SF 3:8-2
1	Geometry	K.G.3,K.G.4	Flat Surfaces on Solid Figures	SF 3:8-3
1	Geometry	K.G.2,K.G.3	Squares and other Rectangles	SF 3:8-4
1	Geometry	K.G.2,K.G.3	Circles and Triangles	SF 3:8-5
2	Geometry	K.G.1,K.G.6,K.G.4	Slides, Flips, and Turns	SF 3:8-6
1	Geometry	K.G.6,1.G.2	Combining and seperating shapes	SF 3:8-7
1	Geometry	1.G.3	Symmerty	SF 3:8-8
1	Geometry	1.G.3	Equal Parts	SF 3:8-9
1	Geometry	1.G.3	Haves and Fourths	SF 3:8-10
1	Geometry	1.G.3	Problem Soliving:Strategy equal shares	SF 3:8-11
1	Geometry	K.G.2,K.G.3,K.G.4,K.G.5,K.G.6,1.G.	Skill Application/Problem Solving	SF 3:8-12
Total Days = 13				
Pacing Guide	**pe of Instruction or Assessment**			
20	Summative Assessment			
N/A	Spiral Review			
138	Classroom Instruction			
12	Reteaching Concepts			
6	Standardized Testing			
4	Miscellaneous Class Time Loss			
Total Days = 180				

Topic: Patterns and Readiness for Addition and Subtraction					
Pacing Guide	**Domain**	**Code**	**Objective**	**Resource**	**Supplements/Manipulatives**
1	Counting and Cardinality	K.CC.3	Review identifying groups of one, two and three, four five and six; reading and writing numbers	Scott Foresman TE R1-R2	
1	Counting and Cardinality	K.CC.3	Review identifying groups of zero, seven, eight and nine; reading and writing numbers	Scott Foresman TE R3-R4	
1	Counting and Cardinality	K.CC.3	Review identifying groups of ten and writing the numbers one through nine	Scott Foresman TE R5-R6	
1	Counting and Cardinality	K.CC.6, K.CC.7	Review comparing numbers through 10	Scott Foresman TE R7	
1	Counting and Cardinality	K.CC.3	Review identifying groups of eleven and twelve; reading and writing numbers	Scott Foresman TE R8	
1	Counting and Cardinality	K.CC.2	Review sorting shapes	Scott Foresman TE R9	
1	Geometry	K.G.1	Review spatial concepts and words; position words	Scott Foresman TE R10	
1		n/a	Review identifying and extending patterns; shape, number and letter patterns	Scott Foresman TE R11-R14	
1	Measurement and Data	1.MD.4	Review sorting data and reading graphs; picture graphs and bar graphs	Scott Foresman TE R15-R16	
Total Days = 9					
Topic: Patterns and Readiness for Addition and Subtraction					
Pacing Guide	**Domain**	**Code**	**Objective**	**Resource**	**Supplements/Manipulatives**
1	Operations and Algebraic Thinking	K.OA.3	show ways to make 6 using two parts	SF TE 1-1	
1	Operations and Algebraic Thinking	K.OA.3	show ways to make 7 using two parts	SF TE 1-2	
1	Operations and Algebraic Thinking	K.OA.3	show ways to make 8 and 9 using two parts	SF TE 1-3	
1	Operations and Algebraic Thinking	K.OA.4	show ways to make 10 using two parts	SF TE 1-4	
1	Operations and Algebraic Thinking	K.OA.3	problem solving strategy: apply the reading skill visualize to math work	SF TE 1-4	
1	Operations and Algebraic Thinking	K.OA.3	solve problems using objext to act them out	SF TE 1-5	
1	Counting and Cardinality	K.CC.4c	find number 1 and 2 more than a given number	SF TE 1-6	
1	Counting and Cardinality	K.CC.4	find number 1 and 2 fewer than a given number	SF TE 1-7	
1	Counting and Cardinality	K.CC.6	compare a given number to both 5 and 10	SF TE 1-8	
1	Counting and Cardinality	K.CC.1	order numbers through 12	SF TE 1-9	

1		n/a	identify pattern unit in a repeating pattern	SF TE 1-10	
1		n/a	translate shape patterns into letters	SF TE 1-11	
1		n/a	solve problems using data from a picture; patterns	SF TE 1-12	
1	Counting and Cardinality	K.CC.1, K.CC.4, K.CC.6 K.OA.3, K.OA.4	review and apply patterns and readiness for addtion and subtraction	SF TE 1-13	
Total Days = 14					
Topic: Understanding Addition and Subtraction					
Pacing Guide	**Domain**	**Code**	**Objective**	**Resource**	**Supplements/Manipulatives**
1	Operations and Algebraic Thinking	1.OA.1	Tell and act out joining stories to find how many in all	SF TE 2-1	
1	Operations and Algebraic Thinking	1.OA.1	find the sum of two addends	SF TE 2-2	
1	Operations and Algebraic Thinking	1.OA.1, 1.OA.7, 1.OA.8	write an addition sentence to find the sum in a joining situation	SF TE 2-3	
1	Operations and Algebraic Thinking	1.OA.1, 1.OA.7, 1.OA.8	write an addition sentence using zero	SF TE 2-4	
1	Operations and Algebraic Thinking	1.OA.1, 1.OA.7, 1.OA.8	write the sums for horizontal and veritcal addition	SF TE 2-5	
1	Operations and Algebraic Thinking	1.OA.1	solve problems by writing addition sentences	SF TE 2-6	
1	Operations and Algebraic Thinking	1.OA.1	tell and act out seperating stories to find how many are left	SF TE 2-7	
1	Operations and Algebraic Thinking	1.OA.6	find the difference between two numbers	SF TE 2-8	
1	Operations and Algebraic Thinking	1.OA.6	write an subtraction sentence to find the difference in a seperating situation	SF TE 2-9	
1	Operations and Algebraic Thinking	1.OA.6	write a subtraction sentence using zero	SF TE 2-10	
1	Operations and Algebraic Thinking	1.OA.6	write the differences for horizontal and vertical forms of subtraction	SF TE 2-11	
1	Operations and Algebraic Thinking	1.OA.1	solve problems by choosing addition or subtraction	SF TE 2-12	
1	Counting and Cardinality	K.CC.6	compare two groups to find out how many more or how many fewer	SF TE 2-13	
1	Operations and Algebraic Thinking	1.OA.4	write a subtraction sentence to compare and tell how many more or how many fewer	SF TE 2-14	
1	Operations and Algebraic Thinking	1.OA.1, 1.OA.3, 1.OA.6	review and apply concepts, skills and strategies	SF TE 2-15	

Total Days = 15					
Topic: Strategies forAddition Facts to 12					
Pacing Guide	**Domain**	**Code**	**Objective**	**Resource**	**Supplements/Manipulatives**
1	Operations and Algebraic Thinking	1.OA.2, 1.OA.5	Find sums by counting on 1, 2, or 3 using counters	SF TE 3-1	
1	Operations and Algebraic Thinking	1.OA.3	Use the communitative property to find sums	SF TE 3-2	
1	Operations and Algebraic Thinking	1.OA.5	Count on 1, 2, 3 to add, start with greater number	SF TE 3-3	
1	Operations and Algebraic Thinking	1.OA.5	Use a number line to count on 1, 2, 3.	SF TE 3-4	
1	Operations and Algebraic Thinking	1.OA.2	Solve problems, identify unnecessary info, write # sentences.	SF TE 3-5	
1	Operations and Algebraic Thinking	1.OA.6	Recognize doubles as a strategy for remembering sums	SF TE 3-6	
1	Operations and Algebraic Thinking	1.OA.5, 1.OA.6	Use doubles facts to learn doubles-plus-1 facts	SF TE 3-7	
1	Operations and Algebraic Thinking	1.OA.2, 1.OA.8	Recognize facts that have sums of ten	SF TE 3-8	
1	Operations and Algebraic Thinking	1.OA.2	Solve problems by drawing pictures	SF TE 3-9	
1	Operations and Algebraic Thinking	1.OA.1, 1.OA.2, 1.OA.5, 1.OA.7, 1.OA.8	Review/apply concepts, skills, strategies	SF TE 3-10	
Total Days = 10					
Topic: Strategies for Substraction Facts to 12					
Pacing Guide	**Domain**	**Code**	**Objective**	**Resource**	**Supplements/Manipulatives**
1	Operations and Algebraic Thinking	1OA.5	Use a number line to count back 1 or 2	SF TE 4-1	
1	Operations and Algebraic Thinking	1OA.5	Find differences by counting back 1 or 2	SF TE 4-2	
1	Operations and Algebraic Thinking	1OA.1, 1OA.6	Find differences by using doubles facts	SF TE 4-3	
1	Operations and Algebraic Thinking	1OA.1	Solve problems by writing subtraction sentences	SF TE 4-4	
1	Operations and Algebraic Thinking	1OA.6	Write related addition and subtraction facts	SF TE 4-5	
1	Operations and Algebraic Thinking	1OA.3, 1OA.4, 1OA.6, 1OA.7, 1OA.8	Write addition, subtraction sent. make fact families	SF TE 4-6	
1	Operations and Algebraic Thinking	1OA.6, 1OA.7, 1OA.8	Find differences by using known addition facts	SF TE 4-7	

1	Operations and Algebraic Thinking	1OA.1	Solve problems by choosing addition or subtraction	SF TE 4-8	
1	Operations and Algebraic Thinking	1OA.1, 1OA.6, 1OA.7, 1OA.8	Review and apply chapter concepts, skills, stategies	SF TE 4-9	
Total Days = 9					
Topic: Geometry and Fractions					
Pacing Guide	**Domain**	**Code**	**Objective**	**Resource**	**Supplements/Manipulatives**
1	Geometry	1G.1, 1.G.2	Identify standard geometric solids, recognize in the environment	SF TE 5-1	
1	Geometry	1G.1	Count the number of flat surfaces, vertices on geometric solids	SF TE 5-2	
1	Geometry	1G.1	Match geometric solid to its outline on flat surface	SF TE 5-3	
1	Geometry	1G.1, 1.G.2	Identify standard plane shapes, recognize in the environment	SF TE 5-4	
1	Geometry	1G.1, 1.G.2	Sort plane shapes and identify their properties	SF TE 5-5	
1	Geometry	1G.1, 1.G.2	Identify and create figures that are same size & shape	SF TE 5-6	
1	Geometry	1G.3	Identify objects that show symmetry and draw lines of symmetry	SF TE 5-7	
1	Measurement and Data	1MD.4	Perform slide, flip, or turn on an object and identify resulting position	SF TE 5-8	
1	Measurement and Data	1MD.4	Solve problems by making organized lists	SF TE 5-9	
1	Geometry	1.G.1, 1.G.3	Determine and count equal vs. unequal parts of divided shape	SF TE 5-10	
1	Geometry	1.G.3	Identify and show halves of a region	SF TE 5-11	
1	Geometry	1.G.3	Identify and show thirds and fourths of a region	SF TE 5-12	
1	Geometry	1.G.3	Identify and show halves, thirds, fourths of group of 2, 3, or 4 objects, respectively	SF TE 5-13	
1	Geometry	1.G.3	identify and show non-unit fractions	SF TE 5-14	
1	Measurement and Data	1MD.4	Solve a problem using data from a chart	SF TE 5-15	
1	Geometry	1.G.1, 1.G.2, 1.G.3	Review and apply chapter concepts, skills, stategies	SF TE 5-16	
Total Days = 16					

Topic: Time					
Pacing Guide	**Domain**	**Code**	**Objective**	**Resource**	**Supplements/Manipulatives**
1	Measurement and Data	1.MD.3	Determine if an event takes more or less than a minute	SF TE 6-1	
1	Measurement and Data	1.MD.3	Identify the hour hand and minute hand on clock	SF TE 6-2	
1	Measurement and Data	1.MD.3	tell and write time to the hour on analog and digital	SF TE 6-3	
1	Measurement and Data	1.MD.3, 1.MD.4	tell and write time to the half hour	SF TE 6-4	
1	Measurement and Data	K.MD.2	Solve problems by acting out situations	SF TE 6-5	
1	Measurement and Data	2.MD.7	Determine order of events, a.m., p.m.	SF TE 6-6	
1	Measurement and Data	K.MD.2	Compare and estimate length of activities	SF TE 6-7	
1	Measurement and Data	1.MD.3, 1.MD.4	Solve problems by using info in a schedule	SF TE 6-8	
1	Measurement and Data	1.MD.4	Read and use calendar to name days of week	SF TE 6-9	
1	Measurement and Data	1.MD.4	Identify and order the months of the year	SF TE 6-10	
1	Measurement and Data	1.MD.3	Review chapter concepts, skills, strategies	SF TE 6-11	
Total Days = 11					
Topic: Counting to 100					
Pacing Guide	**Domain**	**Code**	**Objective**	**Resource**	**Supplements/Manipulatives**
1	Numbers and Operations in Base Ten	1.NBT.2	Read, write the teen #'s as a group of 10 and some left over	SF TE 7-1	
1	Numbers and Operations in Base Ten	1.NBT.2	Count groups of 10, up to 10 tens, write how many	SF TE 7-2	
1	Numbers and Operations in Base Ten	1.NBT.1, 1.NBT.2	Count and write numbers to 100 on hundred chart	SF TE 7-3	
1	Numbers and Operations in Base Ten	1.NBT.1, 1.NBT.2	Count sets grouped in 10s and leftover ones	SF TE 7-4	
1	Numbers and Operations in Base Ten	1.NBT.2	Use a group of 10 to estimate quantities up to 100	SF TE 7-5	
1	Numbers and Operations in Base Ten/Measureme	1.NBT.1, 1.NBT.2, 1.MD.4	Solve problems by using data from a graph	SF TE 7-6	
1	Numbers and Operations in Base Ten	1.NBT.1, 1.NBT.2	Use hundred chart to skip count by 2s, 5s, 10s, find patterns	SF TE 7-7	

1	Numbers and Operations in Base Ten/Measureme	1.NBT.1, 1.NBT.2, 1.MD.4	skip count to find total number of items arranged in sets of 10s, 5s, 2s.	SF TE 7-8	
1	Numbers and Operations in Base Ten	1.NBT.1, 1.MD.4	Solve problems by finding patterns from a table of # pairs	SF TE 7-9	
1	Numbers and Operations in Base Ten	1.NBT.1	Write numbers before, after, or between two given numbers	SF TE 7-10	
1	Operations and Algebraic Thinking	2.OA.3	Determine odd and even numbers up to 60	SF TE 7-11	
1	Counting and Cardinality	K.CC.1	Use ordinals through twentieth to identify position	SF TE 7-12	
1	Numbers and Operations in Base Ten/Measureme	1.NBT.1, 1.NBT.2, 1.MD.4	Review and apply chapter concepts, skills, strategies	SF TE 7- 13	
Total Days = 13					
Topic: Place Value, Data, and Graphs					
Pacing Guide	**Domain**	**Code**	**Objective**	**Resource**	**Supplements/Manipulatives**
1	Numbers and Operations in Base Ten	1.NBT.2	Count tens and write how many there are in all	SF TE 8-1	
1	Numbers and Operations in Base Ten	1.NBT.2	Tell how many 10s and ones there are in a given number and write the number	SF TE 8-2	
1	Numbers and Operations in Base Ten	1.NBT.2	Model 2 digit number and write its expanded form	SF TE 8-3	
1	Numbers and Operations in Base Ten	1.NBT.2	Exchange a ten for 10 ones or 10 ones for a ten and write in expanded form	SF TE 8-4	
1	Numbers and Operations in Base Ten	1.NBT.2, 1.NBT.4	Solve problems by using cubes	SF TE 8-5	
1	Numbers and Operations in Base Ten	1.NBT.1, 1.NBT.2, 1.NBT.5	Given a two digit number, write the numbers that are 10 more/10 less and 1 more/1 less	SF TE 8-6	
1	Numbers and Operations in Base Ten	1.NBT.2, 1.NBT.3	determine in 2 two digit numbers if first is greater than, less than, or equal to second	SF TE 8-7	
1	Numbers and Operations in Base Ten	1.NBT.2	estimate positions of numbers on a number line marked only in multiples of 10.	SF TE 8-8	
1	Numbers and Operations in Base Ten	1.NBT.2, 1.NBT.3	given 3 two-digit #s order from least to greatest or greatest to least	SF TE 8-9	

1	Numbers and Operations in Base Ten	1.NBT.1	Write a 3 digit number for a given model of hundreds, tens, ones	SF TE 8-10	
1	Geometry	1.G.1	Sort objects by one attribute and tell rule	SF TE 8-11	
1	Measurement and Data	1.MD.4	Collect data and organize it into a picture graph	SF TE 8-12	
1	Measurement and Data	1.MD.4	Collect data and organize it into a bar graph	SF TE 8-13	
1	Measurement and Data	1.MD.4	Experiment and record data using tally marks	SF TE 8-14	
1	Measurement and Data	1.MD.4	Identify the distance from one point to another on grid	SF TE 8-15	
1	Operations and Algebraic thinking	1.OA.1, 1.OA.2, 1.OA.7	Solve problems by using a map	SF TE 8-16	
1	Measurement and Data/numbers and operations	1.MD.4, 1.NBT.2, 1.NBT.3	Review and apply chapter concepts, skills, strategies	SF TE 8-17	
Total Days = 17		= 17			
Topic: Money (2nd grade)					
Pacing Guide	**Domain**	**Code**	**Objective**	**Resource**	**Supplements/Manipulatives**
1	Measurement and Data	2.MD.8	Identify the value of groups of nickles/pennies to .25	SF TE 9-1	
1	Measurement and Data	2.MD.8	Identify the value of groups of dimes/pennies thru .99	SF TE 9-2	
1	Measurement and Data	2.MD.8	Identify the value of groups of dimes/nickles thru .95	SF TE 9-3	
1	Measurement and Data	2.MD.8	Identify value of dimes, nickels, pennies thru .99	SF TE 9-4	
1	Measurement and Data	2.MD.8	Solve problems by using data from a table	SF TE 9-5	
1	Measurement and Data	2.MD.8	Identify a quarter and find groups of coins w/ same value	SF TE 9-6	
1	Measurement and Data	2.MD.8	count colecctions of coins including quarters,dimes, nickles, pennies	SF TE 9-7	
1	Measurement and Data	2.MD.8	Identify a dollar bill, dollar coin, half dollar coin and combinations up to $1.00	SF TE 9-8	
1	Measurement and Data	2.MD.8	Solve problems by strategy: try, check, revise	SF TE 9-9	
1	Measurement and Data	2.MD.8	Review and apply chapter concepts, skills, strategies	SF TE 9-10	
Total Days =10					

Topic: Measurement and Probability					
Pacing Guide	**Domain**	**Code**	**Objective**	**Resource**	**Supplements/Manipulatives**
1	Measurement and Data	1.MD.1, 1.MD.2	Estimate, measure, compare lengths using NS units	SF TE 10-1	
1	Measurement and Data	1.MD.1, 1.MD.2	Solve problems by using logical reasoning	SF TE 10-2	
1	Measurement and Data	1.MD.1, 1.MD.2	Estimate, measure, lengths to nearest inch w/ ruler	SF TE 10-3	
1	Measurement and Data	1.MD.1, 1.MD.2	Estmate, measure lengths/heights to the foot w/ ruler	SF TE 10-4	
1	Measurement and Data	1.MD.1, 1.MD.2	Estimate, measure lengths in centimeters w/ ruler	SF TE 10-5	
1	Measurement and Data	1.MD.1, 1.MD.2	Find distance around a shape using inches	SF TE 10-6	
1	Measurement and Data	1.MD.1, 1.MD.2	Look back and check strategy to confirm solution	SF TE 10-7	
1	Measurement and Data	1.MD.4	Estimate, measure, compare capacities of containers	SF TE 10-8	
1	Measurement and Data	1.MD.4	Compare capacities of cups, pints, and quarts	SF TE 10-9	
1	Measurement and Data	1.MD.4	Compare capacities of containers to one liter	SF TE 10-10	
1	Measurement and Data	1.MD.4	Estimate, measure, compare weights of objects	SF TE 10-11	
1	Measurement and Data	1.MD.4	Compare weights of objects to one pound	SF TE 10-12	
1	Measurement and Data	1.MD.1, 1.MD.2	Select the appropriate unit in grams or kilograms	SF TE 10-13	
1	Measurement and Data	1.MD.4	Compare temps on thermometer, match to activity	SF TE 10-14	
1	Measurement and Data	1.MD.1, 1.MD.2	Identify measuring tools for length,weight,cap.&temp.	SF TE 10-15	
1	Measurement and Data	1.MD.1, 1.MD.2	Describe event as certain or impossible	SF TE 10-16	
1	Measurement and Data	1.MD.4	Describe event as more likely or less likely	SF TE 10-17	
1	Measurement and Data	1.MD.2	Review, apply chapter concepts, skills, and strategies	SF TE 10-18	
Total Days: 18					
Topic: Addition and Subtraction Facts to 18					
Pacing	**Domain**	**Code**	**Objective**	**Resource**	**Supplements/Manipulatives**

1	Operations and Algebraic Thinking	1.OA.6	Recognize doubles as strategy for sums to 18	SF TE 11-1	
1	Operations and Algebraic Thinking	1.OA.5	Use doubles facts to learn doubles plus/minus 1	SF TE 11-2	
1	Operations and Algebraic Thinking/Numbers and	1.OA.6, 1.NBT.2	Use pattern to add numbers 1 to 8 to the number 10	SF TE 11-3	
1	Operations and Algebraic Thinking/ Numbers base	1.OA.6, 1.NBT.2	Find sums by making a 10 when adding 8 or 9	SF TE 11-4	
1	Operations and Algebraic Thinking	1.OA.6, 1. OA.7	Select and apply addition facts strategies	SF TE 11-5	
1	Operations and Algebraic Thinking	1.OA.3, 1.OA.6, 1.OA.7, 1.OA.8, 1.MD.4	Use associative property to find sums of 3 numbers	SF TE 11-6	
1	Measurement and Data	1.MD.4	Solve problems by making tables	SF TE 11-7	
1	Operations and Algebraic Thinking	1.OA.6	Write related addition/substraction facts thru 18	SF TE 11-8	
1	Operations and Algebraic Thinking	1.OA.3,1.OA.4,1.OA.6,1.OA.7,1.OA.8	Write addition/subtraction sentences for fact families	SF TE 11-9	
1	Operations and Algebraic Thinking	1.OA.6, 1.OA.7, 1.OA.8	Find differences by using known addition facts	SF TE 11-10	
1	Operations and Algebraic Thinking	1.OA.8	Find differences by using a ten-frame	SF TE 11-11	
1	Operations and Algebraic Thinking	1.OA.5, 1.OA.6, 1.OA.8	Select and apply subtraction fact strategies	SF TE 11-12	
1	Operations and Algebraic Thinking	1.OA.1, 1.OA.4, 1.OA.6, 1.OA.8	Solve multiple-step problems	SF TE 11-13	
1	Operations and Algebraic Thinking	1.OA.1, 1.OA.6, 1.OA.7, 1.OA.8	Review, apply chapter concepts, skills, strategies	SF TE 11-14	
Total Days: 14					
Topic: Two-Digit Addition and Subtraction					
Pacing	**Domain**	**Code**	**Objective**	**Resource**	**Supplements/Manipulatives**
1	Numbers and Operations in Base Ten	1.NBT.6	Add 2 multiples of 10 for sums to 100	SF TE 12-1	
1	Numbers and Operations in Base Ten	1.NBT.4	Add tens to a 2-digit numbers	SF TE 12-2	
1	Numbers and Operations in Base Ten	1.NBT.4	Add 2 two-digit numbers without regrouping	SF TE 12-3	
1	Numbers and Operations in Base Ten	1.NBT.4	Use regrouping w/one-digit to a two-digit quantities	SF TE 12-4	
1	Numbers and Operations in Base Ten	1.NBT.4	Solve problems to exact number or an estimate	SF TE 12-5	

1	Numbers and Operations in Base Ten	1.NBT.6	Subtract a multiple of 10 from a multiple of 10, 100 or less	SF TE 12-6	
1	Numbers and Operations in Base Ten	1.NBT.6	Subtract a multiple of 10 from a two-digit number	SF TE 12-7	
1	Numbers and Operations in Base Ten	2.NBT.7	Subtract a 2digit # from a 2digit # w/out regrouping	SF TE 12-8	
1	Measurement and Data	1.MD.4	Use models to subtract w/ and w/out regrouping	SF TE 12-9	
1	Measurement and Data	1.MD.4	Solve problems by making/interpreting bar graphs	SF TE 12-10	
1	Numbers and Operations in Base Ten	1.NBT.4, 1. NBT.6	Review, apply, chapter concepts, skills, strategies	SF TE 12-11	
Total days: 11					

2nd Grade Math Curriculum Sequence

Topic: chapter 1

Pacing Guide	Domain	Code	Objectives	Resource	Supplements/Manipulatives
1	Number & Operations in Base Ten	2.NBT.5	to join two groups	SF book lesson 1-1	
1	Operations and Algebraic Thinking/Measurement and Dat	2.OA.1, 2.MD.5	join groups, write + sent to tell how many in all	SF 1-2	
1	Operations and Algebraic Thinking/Measurement and Dat	2.OA.1, 2.MD.5	solve a story problem write and + sentence	SF 1-3	
1	Number & Operations in Base Ten	2.NBT.7	take away to find how many are left	SF 1-4	
1	Number & Operations in Base Ten	2.NBT.7	compare to find more or fewer	SF 1-5	
1	Number & Operations in Base Ten	2.NBT.7	write sub sent to solve separation/comparison	SF 1-6	
1	Operations and Algebraic Thinking/Measurement and Dat	2.OA.1, 2.MD.5	solve problems by choosing + or -	SF 1-7	
1	Number & Operations in Base Ten	2.NBT.5	use commnicative property to find sums	SF 1-8	
1	Operations and Algebraic Thinking/Measurement and Dat	2.OA.1, 2.MD.5	recognize facts with sums to 10	SF 1-9	
1	Number & Operations in Base Ten	2.NBT.5	write + and - sentences that make a fact family	SF 1-10	
1	Number & Operations in Base Ten	2.NBT.7	use counters to find missing addend	SF 1-11	
1	Operations and Algebraic Thinking/Measurement and Dat	2.OA.1, 2.MD.5	real world problem solving	SF 1-12	
total days 12	**Domain**				
Topic: chapter 2					
Pacing Guide	**Domain**	**Code**	**Objectives**	**Resource**	**Supplements/Manipulatives**
1	Number & Operations in Base Ten	2.NBT.7	count on to add 1,2,3 to other numbers	SF 2-1	
1	Number & Operations in Base Ten	2.NBT.7	recognize doubles as strategy for remembering sums	SF 2-2	
1	Number & Operations in Base Ten	2.NBT.7	use doubles to learn doubles plus one	SF 2-3	
1	Number & Operations in Base Ten	2.NBT.7	find of the sum of three addends	SF 2-4	
1	Number & Operations in Base Ten	2.NBT.7	find sums by making 10 when adding 9	SF 2-5	
1	Number & Operations in Base Ten	2.NBT.7	find sums by making 10 when adding 7 or 8	SF 2-6	
1	Operations and Algebraic Thinking/Measurement and Dat	2.OA.1, 2.MD.5	solve problems by writing sentences	SF 2-7	
1	Measurement and Data	2.MD.6	use number line to count back one or two	SF 2-8	
1	Number & Operations in Base Ten	2.NBT.7	find differences by using doubles	SF 2-9	
1	Number & Operations in Base Ten	2.NBT.5	find differences by using known addition facts	SF 2-10	
1	Number & Operations in Base Ten	2.NBT.7	use data/picture to find missing numbers and sent	SF 2-11	
1	Operations and Algebraic Thinking/Measurement and Dat	2.OA.1, 2.MD.5	real world problem solving	SF 2-12	
total days 12					
Topic: chapter 3					
Pacing Guide	**Domain**	**Code**	**Objectives**	**Resource**	**Supplements/Manipulatives**
1	Number & Operations in Base Ten	2.NBT.3	count groups of ten up to ten tens, write how many	SF 3-1	
1	Number & Operations in Base Ten	2.NBT.3	use groups of ten/ones to show given 2 digit number	SF 3-2	
1	Number & Operations in Base Ten	2.NBT.3	read and write number words	SF 3-3	
1	Operations and Algebraic Thinking	2.OA.4	solve problem by making organized list	SF 3-4	

1	Number & Operations in Base Ten	2.NBT.4	compare numer using > and < symbols	SF 3-5	
1	Measurement and Data	2.MD.6	use number line to determine closest 10	SF 3-6	
1	Number & Operations in Base Ten	2.NBT.2	write numbers before, after and between	SF 3-7	
1	Number & Operations in Base Ten	2.NBT.2	recognize and extend skip counting patterns	SF 3-8	
1	Operations and Algebraic Thinking	2.OA.3	identify numbers as odd or even	SF 3-9	
1	Measurement and Data	2.MD.8	identify dime, nickle and penny to 99 cents	SF 3-12	
2	Measurement and Data	2.MD.8	count collectin of coins	SF 3-13 to 3-14	
1	Measurement and Data	2.MD.8	comparing sets of coins	SF 3-15	
1	Measurement and Data	2.MD.8	show same amount of $ using different coins	SF 3-16	
1	Measurement and Data	2.MD.8	making change	SF 3-17	
1	Measurement and Data	2.MD.8	identify dollar bill and dollar coin	SF 3-18	
1	Measurement and Data	2.MD.8	word problems using money	SF 3-19	
Total Days 17					
Topic: chapter 4					
Pacing Guide	**Domain**	**Code**	**Objectives**	**Resource**	**Supplements/Manipulatives**
1	Number & Operations in Base Ten	2.NBT.8	add multiple of 10 to 2 digit number	SF 4-1	
1	Number & Operations in Base Ten	2.NBT.7	add 1 digit number to 2 digit number	SF 4-2	
1	Number & Operations in Base Ten	2.NBT.7	adding tens and ones	SF 4-3	
1	Measurement and Data	2.MD.8	estimate sums with money	SF 4-4	
1	Number & Operations in Base Ten	2.NBT.8	subtracting tens	SF 4-5	
1	Number & Operations in Base Ten	2.NBT.7	subtracting tens and ones	SF 4-6	
1	Measurement and Data	2.MD.8	estimating differences in money	SF 4-7	
1	Number & Operations in Base Ten	2.NBT.7	problem solving finding sums	SF 4-8	
1	Number & Operations in Base Ten	2.NBT.2	discover pattern by repeatedly adding same number	SF 4-9	
1	Number & Operations in Base Ten	2.NBT.5	finding parts of 100	SF 4-10	
1	Operations and Algebraic Thinking/Measurement and Dat	2.OA.1, 2.MD.5	use strategies look back and check to solve word prob	SF 4-11	
1	Operations and Algebraic Thinking/Measurement and Dat	2.OA.1, 2.MD.5	word problems	SF 4-12	
Total Days = 13					
Topic: chapter 5					
Pacing Guide	**Domain**	**Code**	**Objectives**	**Resource**	**Supplements/Manipulatives**
1	Number & Operations in Base Ten	2.NBT.7	add with and without regrouping	SF 5-1	
3	Number & Operations in Base Ten	2.NBT.6	recording 2 digit addition	SF 5-2 to 5-4	
1	Number & Operations in Base Ten	2.NBT.6	recording 2 digit addition with money	SF 5-5	
1	Number & Operations in Base Ten	2.NBT.6	adding three 3 digit numbers	SF 5-6	
1	Operations and Algebraic Thinking/Measurement and Dat	2.OA.1, 2.MD.5	problem solving with 2 digit numbers	SF 5-7	
1	Number & Operations in Base Ten	2.NBT.6	estimate a sum as a multiple of 10	SF 5-8	
1	Number & Operations in Base Ten	2.NBT.6	recognize ways to add 2 digit numbers	SF 5-9	

1	Measurement and Data	2.MD.8	problem solving try check and resolve	SF 5-10	
1	Operations and Algebraic Thinking/Measurement and Dat	2.OA.1, 2.MD.5	problem solving 2 digit addition	SF 5-11	
Total Days 11					
Topic: chapter 6	**Domain**				
Pacing Guide		**Code**	**Objectives**	**Resource**	**Supplements/Manipulatives**
1	Number & Operations in Base Ten	2.NBT.7	subtracting with and without regrouping	SF 6-1	
3	Number & Operations in Base Ten	2.NBT.5	recording subtration	SF 6-2 to 6-4	
1	Operations and Algebraic Thinking/Measurement and Dat	2.OA.1, 2.MD.5	problem solving	SF 6-5	
1	Number & Operations in Base Ten	2.NBT.6	more recording subtraction	SF 6-6	
1	Number & Operations in Base Ten	2.NBT.5	relate addition to subtraction	SF 6-7	
1	Number & Operations in Base Ten	2.NBT.6	estimate differences between 2 digit numbers	SF 6-8	
1	Number & Operations in Base Ten	2.NBT.5	ways to subtract	SF 6-9	
2	Operations and Algebraic Thinking/Measurement and Dat	2.OA.1, 2.MD.5	problem solving	SF 6-10 to 6-11	
Total Days = 11					
Topic: chapter 7					
Pacing Guide	**Domain**	**Code**	**Objectives**	**Resource**	**Supplements/Manipulatives**
8	Geometry	2.G.1	sides and angles (basic shapes)	SF 7-1 to 7-8	
1	Geometry	2.G.3	equal parts	SF 7-9	
1	Geometry	2.G.3	unit fractions	SF 7-10	
1	Geometry	2.G.3	non unit fractions	SF 7-11	
1	Geometry	2.G.3	estimating fractions	SF 7-12	
1	Geometry	2.G.3	fractions of a set	SF 7-13	
1	Operations and Algebraic Thinking	2.OA.1	problem solving	SF 7-14	
Total Days = 14					
Topic: chapter 8					
Pacing Guide	**Domain**	**Code**	**Objectives**	**Resource**	**Supplements/Manipulatives**
8	Measurement and Data	2.MD.7	time	SF 8-1 to 8-8	
1	Operations and Algebraic Thinking	2.OA.2	problem solving	SF 8-9	
6	Measurement and Data	2.MD.10	graphing	SF 8-10 to 8-16	
1	Operations and Algebraic Thinking	2.OA.2	problem solving	SF 8-18	
Total Days = 16					
Topic: chapter 9					
Pacing Guide		**Code**	**Objectives**	**Resource**	**Supplements/Manipulatives**
1	Measurement and Data	2.MD.1	measurement	SF 9-1	
3	Measurement and Data	2.MD.3	estimating measurement	SF 9-2 to 9-4	

1	Operations and Algebraic Thinking	2.OA.2	problem solving	SF 9-5	
3	Measurement and Data	2.MD.3	estimating quanities and measurement	SF 9-6 to SF 9-8	
1	Geometry	2.G.2	volume	SF 9-9	
3	Measurement and Data	2.MD.3	estimating weights	SF 9-10 to 9-12	
1	Measurement and Data	2.MD.4	comparing sizes	SF 9-17	
Total days 13					
Topic: chapter 10					
Pacing Guide	**Domain**	**Code**	**Objectives**	**Resource**	**Supplements/Manipulatives**
1	Number & Operations in Base Ten	2.NBT.1	counting by 100s	SF 10-1	
1	Number & Operations in Base Ten	2.NBT.3	count sets grouped in 100, 10 and 1s	SF 10-2	
1	Number & Operations in Base Ten	2.NBT.3	read and write numbers in standard and expanded	SF 10-3	
1	Number & Operations in Base Ten	2.NBT.7	adding mulitiple of 10 or 100 (3 digit numbers)	SF 10-4	
1	Number & Operations in Base Ten	2.NBT.4	comparing 3 digit numbers	SF 10-5	
1	Number & Operations in Base Ten	2.NBT.8	finding missing parts of 1000	SF 10-6	
1	Measurement and Data	2.MD.9	data from chart	SF 10-7	
1	Number & Operations in Base Ten	2.NBT.2	before after and in between	SF 10-8	
1	Number & Operations in Base Ten	2.NBT.4	ordering 3 digit numbers	SF 10-9	
1	Number & Operations in Base Ten	2.NBT.2	3 digit number patterns	SF 10-10	
1	Operations and Algebraic Thinking	2.OA.1	problem solving with 3 digit numbers	SF 10-11	
Total days 11					
Topic: chapter 11					
Pacing Guide	**Domain**	**Code**	**Objectives**	**Resource**	**Supplements/Manipulatives**
1	Number & Operations in Base Ten	2.NBT.8	add 3 digit numbers mentally (no regrouping)	SF 11-1	
1	Number & Operations in Base Ten	2.NBT.4	estimating sums	SF 11-2	
3	Number & Operations in Base Ten	2.NBT.7	adding 3 digit numbers	SF 11-3 to 11-5	
1	Measurement and Data	2.MD.10	make a graph	SF 11-6	
1	Number & Operations in Base Ten	2.NBT.8	finding missing part of 3 digit sum	SF 11-7	
4	Number & Operations in Base Ten	2.NBT.7	difference (3 digit numbers)	SF 11-8 to 11-11	
2	Operations and Algebraic Thinking	2.OA.1	problem solving	SF 11-12 to 11-13	
Total days 13					
Topic: chapter 12					
Pacing Guide	**Domain**	**Code**	**Objectives**	**Resource**	**Supplements/Manipulatives**
1	Operations and Algebraic Thinking	2.OA.3	skip count equal groups	SF 12-1	
4	Operations and Algebraic Thinking	2.O.4	multiplcation foundation	SF 12-2 to 12-5	
1	Operations and Algebraic Thinking	2.OA.1	problem solving	SF 12-6	
2	Operations and Algebraic Thinking	2.OA.3	making equal groups (basic groups)	SF 12-7 to 12-8	

2nd Grade Math Curriculum Sequence

2	Operations and Algebraic Thinking	2.OA.1	problem solving	SF 12-9 to 12-10	
Total days 10					
Total days 154					
daily instruction	Number & Operations in Base Ten	2.NBT.9	Problem of the day	SF over head and TM	
daily instruction	Number & Operations in Base Ten	2.NBT.1	Calendar skills	calendar	
daily instruction	Number & Operations in Base Ten	2.NBT.2	Calendar skills	calendar	
daily/weeky	Operations and Algebraic Thinking	2.OA.2	Rocket Math and/or Math facts in a flash	teacher files/computer	
Pacing Guide			**Type of Instruction or Assessment**		
24			Summative Assessment		
11			Spiral Review		
112			Classroom Instruction		
24			Reteaching Concepts		
6			Standardized Testing		
3			Miscellaneous Class Time Loss		
Total Days = 180					

			Third Grade Math Curriculum Sequence		
Topic: Place Value					
Pacing Guide	**Domain**	**Code**	**Objectives**	**Resource**	**Supplements/Manipulatives**
1	Number and Operations in Base Ten	3.NBT.1	Ways to Use Numbers	Lesson 1-1	Place Value Chart, Place Value Blocks
1	Number and Operations in Base Ten	3.NBT.1	Numbers in the hundreds	Lesson 1-2	Place Value Chart, Place Value Blocks
1	Number and Operations in Base Ten	3.NBT.1,3.OA.9	Place Value Patterns	Lesson 1-3	Place Value Chart, Place Value Blocks
1	Number and Operations in Base Ten	3.NBT.1	Numbers in the thousands	Lesson 1-4	Place Value Chart, Place Value Blocks
1	Number and Operations in Base Ten	3.NBT.1	Greater Numbers	Lesson 1-5	Place Value Chart, Place Value Blocks
1	Number and Operations in Base Ten	3.NBT.1, 3.OA8-9	Read and Understand/ Diagnostic Checkpoin	Lesson 1-6/ Review	Place Value Chart, Place Value Blocks
1	Number and Operations in Base Ten	3.NBT.1, 3.OA8-9	Comparing Numbers	Lesson 1-7	Place Value Chart, Place Value Blocks
1	Number and Operations in Base Ten	3.NBT.1-2, 3.OA9	Ordering Numbers	Lesson 1-8	Place Value Chart, Place Value Blocks
1	Number and Operations in Base Ten	3.NBT2, 3.OA9	Number Patterns	Lesson 1-9	Place Value Chart, Place Value Blocks
1	Number and Operations in Base Ten	3.NBT1	Rounding Numbers	Lesson 1-10	Place Value Chart, Place Value Blocks
1	Number and Operations in Base Ten	3.NBT2, 3.OA8-9	Plan and Solve	Lesson 1-11	
1	Number and Operations in Base Ten	3-NBT1-2 OA8-9	Diagnostic Checkpoint B	Review	Place Value Chart, Place Value Blocks
1	Number and Operations in Base Ten	3.OA8-9	Problem Solving	Lesson 1-14	
1	Number and Operations in Base Ten	3.OA8-9	Read and Understand / Diagnostic Checkpoi	Lesson 1-15/Review	
1			Practice Test		
1			Chapter Test		
Total Days = 16					

3rd Grade Math Curriculum Sequence

Topic: Addition and Subtraction Number Sense					
Pacing Guide	**Domain**	**Code**	**Objectives**	**Resource**	**Supplements/Manipulatives**
1	Number and Operations in Base Ten	3.NBT.2-3	Addition Properties	Lesson 2-1	
1	Number and Operations in Base Ten	3.NBT.2, 3.OA9	Relating Addition to Subtraction	Lesson 2-2	
`	Number and Operations in Base Ten	3.NBT.2-3, 3.OA9	Find a Rule	Lesson 2-3	
1	Number and Operations in Base Ten	3.NBT.2, 3.OA9	Write a number sentence	Lesson 2-4	
1	Number and Operations in Base Ten	3.NBT.2-3, 3.OA9	Review	Checkpoint A	
1	Number and Operations in Base Ten	3.NBT.2, 3.OA9	Mental Math- Breaking numbers apart	Lesson 2-5	
1	Number and Operations in Base Ten	3.NBT.2, 3.OA9	Mental Math- Using tens to add	Lesson 2-6	
1	Number and Operations in Base Ten	3.NBT.1-2	Estimating Sums	Lesson 2-7	
1	Number and Operations in Base Ten	3.NBT.1-2	Over and Under Estimates	Lesson 2-8	
1	Number and Operations in Base Ten	3.NBT.2, 3.OA9	Review	Checkpoint B	
1	Number and Operations in Base Ten	3.NBT.1-2	Mental Math- Using Tens to Subtract	Lesson 2-9	
1	Number and Operations in Base Ten	3.NBT.1-2	Estimating Differences	Lesson 2-11	
1	Number and Operations in Base Ten	3.OA8-9	Writing to Explain	Lesson 2-12	
1	Number and Operations in Base Ten	3.NBT.1-2, 3.OA9	Reading to Understand/Review	Lesson 2-13/Checkpoint C	
1			Practice Test		
1			Chapter Test		
Total Days = 16					
Topic: Adding Subtracting					
Pacing Guide	**Domain**	**Code**	**Objectives**	**Resource**	**Supplements/Manipulatives**

1	Number and Operations in Base Ten	3.NBT2	Adding two digit numbers	Lesson 3-1	
1	Number and Operations in Base Ten	3.NBT2	Adding three digit numbers	Lesson 3-2	
1	Number and Operations in Base Ten	3.NBT2	Adding three digit numbers	Lesson 3-3	
1	Number and Operations in Base Ten	3.NBT2	Adding three or more numbers	Lesson 3-4	
1	Number and Operations in Base Ten	3.OA9	Problem Solving: Drawing a Picture	Lesson 3-5	
1	Number and Operations in Base Ten	3.NBT2,3.OA9	Review	Checkpoint A	
1	Number and Operations in Base Ten	3.NBT2	Regrouping	Lesson 3-6	
1	Number and Operations in Base Ten	3.NBT2	Subtracting Two Digit Numbers	Lesson 3-7	
1	Number and Operations in Base Ten	3.NBT2	Models for Subtraction	Lesson 3-8	Base Ten Blocks
1	Number and Operations in Base Ten	3.NBT2	Subtracting Three digit numbers	Lesson 3-9	Base Ten Blocks
1	Number and Operations in Base Ten	3.NBT2	Subtracting Across Zero	Lesson 3-10	Base Ten Blocks
1	Number and Operations in Base Ten	3.NBT2,3.OA9	Review	Checkpoint B	
1	Number and Operations in Base Ten	3.NBT2,3.OA9	Exact Answer to Estimate	Lesson 3-11	
1	Number and Operations in Base Ten	3.NBT2	Adding and Subtracting Money	Lesson 3-12	
1	Number and Operations in Base Ten	3.NBT2,3.OA9	Choose a Computation Method	Lesson 3-13	Calculator
1	Number and Operations in Base Ten	3.NBT2	Equality and Inequality	Lesson 3-14	
1	Number and Operations in Base Ten	3.NBT2,3.OA9	Read and Understand/ Review	Checkpoint C	
1			Practice Test		
1			Chapter Test		
Total Days = 19					
Topic: Time Data and Graphs					
Pacing Guide	**Domain**	**Code**	**Objectives**	**Resource**	**Supplements/Manipulatives**
1	Measurement and Data	3.MD1	Time to the half hour and quarter hour	Lesson 4-1	Clocks
1	Measurement and Data	3.MD1	Time to the minute	Lesson 4-2	Clocks
1	Measurement and Data	3.MD1	Elapsed Time	Lesson 4-3	Clocks
1	Measurement and Data	3.MD1	Review	Checkpoint A	
1	Measurement and Data	3.MD3	Tally Charts	Lesson 4-5	
1	Measurement and Data	3.MD3	Line Plots	Lesson 4-6	
1	Measurement and Data	3.MD3	Pictograph and Bar Graph (interpreting)	Lesson 4-7	
1	Measurement and Data	3.MD3	Write to compare	Lesson 4-8	
1	Measurement and Data	3.MD3	Graphing Ordered Pairs	Lesson 4-9	Graph Paper

1	Measurement and Data	3.MD3	Line Graphs and Review	Lesson 4-10/Checkpoint B	Graph Paper
1	Measurement and Data	3.MD3	Making Pictographs	Lesson 4-11	Graph Paper
1	Measurement and Data	3.MD3	Making Bar Graphs	Lesson 4-12	Graph Paper
1	Measurement and Data	3.MD3	Making Line Graphs	Lesson 4-13	Graph Paper
1	Measurement and Data	3.MD3	Problem Solving Strategies with Graphs	Lesson 4-14	
1	Measurement and Data	3.MD3	Reading for Understanding/Review	Lesson 4-15/Checkpoint C	
1			Practice Test		
1			Chapter Test		
Total Days = 17					
Topic: Multiplication Concepts and Facts					
Pacing Guide	**Domain**	**Code**	**Objectives**	**Resource**	**Supplements/Manipulatives**
1	Operations and Algebraic Thinking	3.OA1,3	Multiplication as repeated addition	Lesson 5-1	Counters
1	Operations and Algebraic Thinking	3.OA1,3,5	Arrays and Multiplication	Lesson 5-2	Counters
1	Operations and Algebraic Thinking	3.OA1,3,5,9	Multiplication Stories	Lesson 5-3	Counters
1	Operations and Algebraic Thinking	3.OA1,3,5,8,9	Tables/Review	Lesson 5-4/Checkpoint A	Counters
1	Operations and Algebraic Thinking	3.OA1,3,4,5,7	2 as a Factor	Lesson 5-5	
1	Operations and Algebraic Thinking	3.OA1,3,4,5,7	5 as a Factor	Lesson 5-6	Counters
1	Operations and Algebraic Thinking	3.OA1,3,4,5,7 3.NBT.3	10 as a Factor	Lesson 5-7	
1	Operations and Algebraic Thinking	3.OA8,9 3.NBT.3	Problem Solving Multiple Steps	Lesson 5-8	
1	Operations and Algebraic Thinking	3.OA1,3,4,5,7	Multiplication with 0 and 1	Lesson 5-9	
1	Operations and Algebraic Thinking	3.OA1,3,4,5,7	9 as a factor	Lesson 5-10	
1	Operations and Algebraic Thinking	3.OA1,3,4,5,7	Practice Multiplication Facts	Lesson 5-11	
1	Operations and Algebraic Thinking	3.OA1,3,4,5,7 3.NBT.3	Read for Understanding/Review	Lesson 5-12/Checkpoint B	
1			Practice Test		
1			Chapter Test		
Total Days = 14					
Topic: Multiplication					

Pacing Guide	**Domain**	**Code**	**Objectives**	**Resource**	**Supplements/Manipulatives**
1	Operations and Algebraic Thinking	3.OA1,3,5	3 as a factor	Lesson 6-1	Multiplication Chart
1	Operations and Algebraic Thinking	3.OA1,3,5	4 as a Factor	Lesson 6-2	Multiplication Chart
1	Operations and Algebraic Thinking	3.OA1,3,5	6 and 7 as Factors	Lesson 6-3	Multiplication Chart
1	Operations and Algebraic Thinking	3.OA1,3,5	8 as a Factor	Lesson 6-4	Multiplication Chart
1	Operations and Algebraic Thinking	3.OA1,3,5,7 3.NBT.3	Practice Multiplication Strategies	Lesson 6-5	Multiplication Chart
1	Operations and Algebraic Thinking	3.OA1,3,5,7,9 3.NBT.3	Looking for Patterns	Lesson 6-6	Multiplication Chart
1	Operations and Algebraic Thinking	3.OA1,3,5,7,9 3.NBT.3	Review	Checkpoint A	Multiplication Chart
1	Operations and Algebraic Thinking	3.OA1,3,5,7,9 3.NBT.3	Using multiplication to compare	Lesson 6-7	Multiplication Chart
1	Operations and Algebraic Thinking	3.OA1,3,5,7,9	Patterns on a Table	Lesson 6-8	Multiplication Chart
1	Operations and Algebraic Thinking	3.OA1,3,5,7,9	Multiply with 3 Factors	Lesson 6-9	Multiplication Chart
1	Operations and Algebraic Thinking	3.OA1,3,5,7,9	Find a Rule	Lesson 6-10	Multiplication Chart
1	Operations and Algebraic Thinking	3.OA1,3,5,7,8,9	Choose an Operation	Lesson 6-11	Multiplication Chart
1	Operations and Algebraic Thinking	3.OA1,3,5,7,8,9	Problem Solving/Review	Lesson 6-12/Checkpoint B	Multiplication Chart
1			Practice Test		
1			Chapter Test		
Total Days =15					
Topic: Division Concepts and Facts					
Pacing Guide	**Domain**	**Code**	**Objectives**	**Resource**	**Supplements/Manipulatives**
1	Operations and Algebraic Thinking	3.OA2,3,4,5,6,7	Division as Sharing	Lesson 7-1	Counters
1	Operations and Algebraic Thinking	3.OA2,3,4,5,6,7	Division as Repeated Subtraction	Lesson 7-2	Counters

1	Operations and Algebraic Thinking	3.OA2,3,4,5,6,7, 8,9 3.NBT3	Writing Division Stories	Lesson 7-3	Counters
1	Operations and Algebraic Thinking	3.OA2,3,4,5,6,7, 8,9	Try, Check, Revise	Lesson 7-4	
1	Operations and Algebraic Thinking	3.OA2,3,4,5,6,7, 8,9 3.NBT3	Review	Checkpoint A	
1	Operations and Algebraic Thinking	3.OA2,3,4,5,6,7, 8,9	Relating Multiplication and Division	Lesson 7-5	
1	Operations and Algebraic Thinking	3.OA2,3,4,5,6,7, 8,9	Division with 2 and 5	Lesson 7-6	
1	Operations and Algebraic Thinking	3.OA2,3,4,5,6,7, 8,9	Division with 3 and 4	Lesson 7-7	
1	Operations and Algebraic Thinking	3.OA2,3,4,5,6,7, 8,9	Division with 6 and 7	Lesson 7-8	
1	Operations and Algebraic Thinking	3.OA2,3,4,5,6,7, 8,9	Division with 8 and 9	Lesson 7-9	
1	Operations and Algebraic Thinking	3.OA2,3,4,5,6,7, 8,9 3.NBT3	Review	Checkpoint B	
1	Operations and Algebraic Thinking	3.OA2,3,4,5,6,7, 8,9 3.NBT3	Division with 0 and 1	Lesson 7-10	
1	Operations and Algebraic Thinking	3.OA2,3,4,5,6,7, 8,9	Remainders	Lesson 7-11	
1	Operations and Algebraic Thinking	3.OA2,3,4,5,6,7, 8,9 3.NBT3	Division Patterns with 10,11,12	Lesson 7-12	Multiplication Table
1	Operations and Algebraic Thinking	3.OA2,3,4,5,6,7, 8,9 3.NBT3	Translating Words into Number Expressions	Lesson 7-14	
Total Days = 15					
Topic: Geometry and Measurement					
Pacing Guide	**Domain**	**Code**	**Objectives**	**Resource**	**Supplements/Manipulatives**
1	Geometry	G1	Solid Figures/Relating Solid Figures and Shap	Lesson 8-1/8.2	Solid Figures
1	Geometry	G1	Review/Lines and Line Segments	Checkpoint A/8.4	Solid Figures

1	Geometry	G1	Angles/Polygons	Lesson 8.5/8.6	
1	Geometry	G1	Triangles/Quadrilaterals	Lesson 8.7/8.8	
1	Geometry	G1	Congruent Figures/Symmetry	Lesson 8.9/8.10	
1	Measurement and Data	3.MD.5,6.7,8	Perimeter/Area	Lesson 8.11/8.12	Paper Clips, Graph Paper
1	Measurement and Data	3.MD2,5,6,7,8	Volume/Review	Lesson 8.13/Review	Graph Paper
1	Measurement and Data	3.MD2	Customary Units of Capacity	Lesson 12.1	Cup, pint, quart, gallon
1	Measurement and Data	3.MD2	Milliliters/Liters	Lesson 12.2	Milliliter, Liter
1	Measurement and Data	3.MD2	Customary Units of Weight	Lesson 12.4	Scale
1	Measurement and Data	3.MD2	Kilograms and Grams	Lesson 12.5	Scale
Total Days = 11					
Topic: Fractions and Measurement					
Pacing Guide	**Domain**	**Code**	**Objectives**	**Resource**	**Supplements/Manipulatives**
1	Number and Operations: Fractions	3.NF.1, G2	Equal parts of a whole	Lesson 9-1	
1	Number and Operations: Fractions	3.NF.1, G2	Naming Fraction Parts	Lesson 9-2	
1	Number and Operations: Fractions	3.NF.3,G2	Equivalent Fractions	Lesson 9-3	
1	Number and Operations: Fractions	3.NF.2,3,MD4	Comparing and Ordering Fractions	Lesson 9-4	
1	Number and Operations: Fractions/Numb	3.NF.1,3,G2 NBT.1	Estimating Fractional Amounts	Lesson 9-5	
1	Number and Operations: Fractions	3.NF2,3	Fractions on a Number Line	Lesson 9-6	
1	Number and Operations: Fractions/Numb	3.NF.1,2,3,G2 NBT.1	Review	Checkpoint A	
1	Number and Operations: Fractions	3.NF1,3 3.OA2,4,6,8,9	Fractions and Sets	Lesson 9-7	
1	Number and Operations: Fractions	3.NF1,3 3.OA2,4,6,8,9	Finding Fraction Parts	Lesson 9-8	
1	Number and Operations: Fractions/Numb	3.NF.1,2,3,NBT.2	Adding and Subtracting Fractions	Lesson 9-9	
1	Number and Operations: Fractions/Meas	3.NF.1,2,3,MD4	Mixed Numbers	Lesson 9-10	
1	Number and Operations: Fractions/Opera	3.NF1,2,3 3.OA8,9	Problem Solving/Review	Lesson 9-11/Checkpoint B	

1	Measurement and Data	MD4,6	Length to the Inch	Lesson 9-12	Ruler
1	Number and Operations: Fractions/Meas	3.NF2,3 MD3	Measuring half and quarter inch	Lesson 9-13	Ruler
1	Number and Operations: Fractions/Meas	3.NF2,3 MD6,8	Length in Feet and Inches	Lesson 9-14	Ruler
1	Number and Operations: Fractions	MD6,8	Feet, Yard, and Miles	Lesson 9-15	Ruler/Yard Stick
1	Operatoins and Alg/Numbers in Base Ten	3.OA8,9 NBT1,2	Extra and Missing Information	Lesson 9-16	
1	Number and Operations: Fractions/Opera	3.NF1,2,3 3.OA2,4,6,8,9	Reading for Understanding/Review	Lesson 9-17/Checkpoint C	
1			Practice Test		
1			Chapter Test		
Total Days = 19					
Topic: Decimals and Measurement					
Pacing Guide	**Domain**	**Code**	**Objectives**	**Resource**	**Supplements/Manipulatives**
1	Number and Operations: Fractions	NF2,3	Tenths	Lesson 10-1	Place Value Charts
1	Number and Operations: Fractions	NF2,3	Hundredths	Lesson 10-2	Place Value Charts
1	Number and Operations: Fractions	NF2,3	Compare and Order Decimals	Lesson 10-3	
1	Number and Operations: Fractions	NF2,3 NBT2	Adding and Subtracting Decimals	Lesson 10-4	
1	Operation & Alg/Numbers Base Ten/Num	3.OA8,9 NBT2, NF2,3	Problem Solving Organized List/ Review	Lesson 10-5/Checkpoint A	
1	Measurement and Data	3.MD4,5,6	Centimeters and Decimeters	Lesson 10-6	
1	Measurement and Data	3.MD4,5,6	Meters and Kilometers	Lesson 10-7	
1	Measurement and Data	3.MD4,5,6 3.OA8,9	Problem Solving/Review	Lesson 10-8/Checkpoint B	
1			Practice Test		
1			Chapter Test		
Total Days = 10					
Pacing Guide	**Domain**	**Code**	**Objectives**	**Resource**	**Supplements/Manipulatives**
Topic: Multiplying and Dividing Greater Numbers/Measurement and Probability					

3rd Grade Math Curriculum Sequence

					More Sideways Arithmetic from Wayside School By Louis Sachar
15	Operations and Algebraic Thir	3.OA2,3,4,5,6,7, 8,9 NBT 2,3	Supplementing with <u>More Sideways Arithmetic from Wayside School</u>		Novel
Total Days = 15					
tal Days 167					

4th Grade Math Curriculum Sequence

Topic: Geometry					
Pacing Guide	**Domain**	**Code**	**Objectives**	**Resource**	**Supplements/Manipulatives**
2	Geometry	4.G.1	Points, Lines, Segments, Lines, and Rays	Lesson 1-2	Geoboards, Rulers
2	Geometry	4.G.1,2	Angles, Triangles, and Quadrangles	Lesson 1-3	Rulers, Protractors
2	Geometry	4.G.1,2	Parallelograms	Lesson 1-4	Rulers
2	Geometry	4.G.1,2	Polygons	Lesson 1-5	Manipulative shapes
2	Measurement & Data	4.MD.5a	Drawings Circles with a Compass	Lesson 1-6	Compass
2	Measurement & Data	4.MD.5a	Circle Constructions	Lesson 1-7	Compass
2	Geometry	4.G.1,2	Hexagon and Triangle Constructions	Lesson 1-8	Rulers
2	Geometry		Review & Summative Assessment		Study guide
Total Days = 16					
Topic: Using Numbers & Organizing Data					
Pacing Guide	**Domain**	**Code**	**Objectives**	**Resource**	**Supplements/Manipulatives**
			Equivalent Names for Whole Numbers	Lesson 2-2	
1	Operations & Algebraic Thinking	4.OA.5	Place Value in Whole Numbers	Lesson 2-3	Place Value Charts
2	Number & Operations in Base 10	4.NBT.1,2			
2	Number & Operations in Base 10	4.NBT.1,2	Place Value with a Calculator	Lesson 2-4	Calculators
	Measurement and Data	3.MD.3	Organizing and Displaying Data	Lesson 2-5	
	Measurement and Data	6.SP.5c	Median	Lesson 2-6	
2	Operations & Algebraic Thinking	4.OA.3	Addition of Multidigit Numbers	Lesson 2-7	Base Ten Blocks
2	Number & Operations in Base 10	4.NBT.2			
	Measurement and Data	3.MD.3	Displaying Data with Graphs	Lesson 2-8	
2	Operations & Algebraic Thinking	4.OA.1,3	Subtraction of Multidigit Numbers	Lesson 2-9	Base Ten Blocks
2	Number & Operations in Base 10	4.NBT.4			
2			Review & Summative Assessment		
Total Days = 15					
Topic: Multiplication & Division; Number Sentences & Algebra					
Pacing Guide	**Domain**	**Code**	**Objectives**	**Resource**	**Supplements/Manipulatives**
1	Operations & Algebraic Thinking	4.OA.1,4,5	Multiplication Facts	Lessons 3-2 to 3-4	Multiplication Charts
2	Operations & Algebraic Thinking	4.OA.1	Multiplication and Division	Lesson 3-5	
2	Operations & Algebraic Thinking	4.OA.3	Solving Number Stories	Lesson 3-8	

2	Operations & Algebraic Thinking	4.OA.5	True or False Number Sentences	Lesson 3-9	
		5.OA.1	Parentheses in Number Sentences	Lesson 3-10	
2	Operations & Algebraic Thinking	4.OA.1,4	Open sentences	Lesson 3-11	
2			Review & Summative Assessment		
Total Days = 11					
Topic: Decimals					
Pacing Guide	**Domain**	**Code**	**Objectives**	**Resource**	**Supplements/Manipulatives**
2	Number & Operations in Base 10	4.NBT.1	Decimal Place Value	Lesson 4-1	Place Value Charts
1	Numbers & Operations: Fractions	4.NF.6	Basic Decimal Concepts	Lesson 4-2	
2	Numbers & Operations: Fractions	4.NF.7	Comparing and Ordering Decimals	Lesson 4-3	
1	Measurement & Data	4.MD.2,7	Estimating with Decimals	Lesson 4-4	
1	Operations & Algebraic Thinking	4.OA.2	Decimal Addition and Subtraction	Lesson 4-5	
1	Measurement & Data	4.MD.2	Decimals in Money	Lesson 4-6	
1	Number & Operations in Base 10	4.NBT.1	Thousandths	Lesson 4-7	
1	Number & Operations in Base 10	4.NBT.1	Metric Units of Length	Lesson 4-8 to 4-9	Rulers
1	Operations & Algebraic Thinking	4.OA.2	Measuring in Millimeters	Lesson 4-10	Rulers
2			Review & Summative Assessment		
Total Days = 13					
Topic: Big Numbers, Estimation, and Computation					
Pacing Guide	**Domain**	**Code**	**Objectives**	**Resource**	**Supplements/Manipulatives**
2	Operations & Algebraic Thinking	4.OA.1,2	Extended Multiplication Facts	Lesson 5-1	
1	Operations & Algebraic Thinking	4.OA.3	Estimating Sums	Lesson 5-3	
2	Number & Operations in Base 10	4.NBT.3	Estimating Products	Lesson 5-4	
2	Operations & Algebraic Thinking	4.OA.3	Partial-Products Multiplication	Lesson 5-5 to 5-6	
1	Number & Operations in Base 10	4.NBT.4	Lattice Multiplication	Lesson 5-7	
1	Operations & Algebraic Thinking	4.OA.2,3	Big Numbers	Lesson 5-8	
2	Number & Operations in Base 10	4.NBT.1,2	Powers of 10	Lesson 5-9	
2	Number & Operations in Base 10	4.NBT.3	Rounding & Reporting Large Numbers	Lesson 5-10	
1	Operations & Algebraic Thinking	4.OA.3	Comparing Data	Lesson 5-11	
2			Review & Summative Assessment		
Total Days = 16					

4th Grade Math Curriculum Sequence

Topic: Division					
Pacing Guide	**Domain**	**Code**	**Objectives**	**Resource**	**Supplements/Manipulatives**
2	Operations & Algebraic Thinking	4.OA.2,3	Multiplication & Division Number Stories	Lesson 6-1	
	Number & Operations in Base 10	4.NBT.3,6			
2	Operations & Algebraic Thinking	4.OA.3,4	Strategies for Division	Lesson 6-2	
	Number & Operations in Base 10	4.NBT.2,6			
3	Operations & Algebraic Thinking	4.OA.3	Partial Quotients Division Algorithm	Lesson 6-3 & 6-10	
	Number & Operations in Base 10	4.NBT.6			
2	Operations & Algebraic Thinking	4.OA.4	Expressing & Interpreting Remainders	Lesson 6-4	
	Measurement and Data		Rotations and Angles	Lesson 6-5	
	Measurement and Data		Using a Full-Circle Protractor	Lesson 6-6	Protractors
	Measurement and Data		Using a Half-Circle Protractor	Lesson 6-7	Protractors
1	Operations & Algebraic Thinking	4.OA.3	Rectangular Coordinate Grids for Maps	Lesson 6-8	
	Measurement and Data		Global Coordinate Grid System	Lesson 6-9	
2			Review & Summative Assessment		
Total Days = 12					
Topic: Fractions & Their Uses; Chance & Probability					
Pacing Guide	**Domain**	**Code**	**Objectives**	**Resource**	**Supplements/Manipulatives**
2	Numbers & Operations: Fractions	4.NF.3b	Basic Fraction Concepts	Lesson 7-1	Fraction Blocks
2	Numbers & Operations: Fractions	4.NF.4c	Fractions of Sets	Lesson 7-2	Fraction Blocks
			Probabilities	Lesson 7-3	
1	Numbers & Operations: Fractions	4.NF.3b	Pattern-Block Fractions	Lesson 7-4	
2	Numbers & Operations: Fractions	4.NF.3	Fraction & Mixed Number Addition and Subtract	Lesson 7-5	
1	Numbers & Operations: Fractions	4.NF.3	Many Names for Fractions	Lesson 7-6	
3	Operations & Algebraic Thinking	4.OA.4	Equivalent Fractions	Lesson 7-7	
3	Numbers & Operations: Fractions	4.NF.5	Fractions & Decimals	Lesson 7-8	
2	Numbers & Operations: Fractions	4.NF.1,2	Comparing Fractions	Lesson 7-9	
1	Numbers & Operations: Fractions	4.NF.2	The ONE For Fractions	Lesson 7-10	
			Probability, Fractions, and Spinners	Lesson 7-11	
1	Operations & Algebraic Thinking	4.OA.4	Multiplying Fractions by Whole Numbers	Lesson 7-12	
2	Number & Operations in Base 10	4.NBT.2	Review & Summative Assessment		

Total Days = 20					
Topic: Perimeter & Area					
Pacing Guide	**Domain**	**Code**	**Objectives**	**Resource**	**Supplements/Manipulatives**
1	Measurement & Data	4.MD.2	Perimeter	Lesson 8-1	
	Measurement & Data	4.MD.1	Scale Drawings	Lesson 8-2	
2	Measurement & Data	4.MD.2,3	Area	Lesson 8-3 to 8-4	
1	Measurement & Data	4.MD.3	Area of a Rectangle	Lesson 8-5	
1	Measurement & Data	4.MD.3	Area of a Parallelogram	Lesson 8-6	
1	Number & Operations in Base 10	4.NBT.2	Area of a Triangle	Lesson 8-7	
1	Operations & Algebraic Thinking	4.OA.2,3	Geographical Area Measurements	Lesson 8-8	
	Number & Operations in Base 10	4.NBT.3			
2			Review & Summative Assessment		
Total Days = 9					
Topic: Fractions, Decimals, and Percents					
Pacing Guide	**Domain**	**Code**	**Objectives**	**Resource**	**Supplements/Manipulatives**
	Number & Operations in Fractions		Fractions, Decimals, and Percents	Lesson 9-1	
	Number & Operations in Fractions		Converting Fractions to Decimals and Percents	Lesson 9-2 to 9-4	
	Number & Operations in Fractions		Conversions among Fractions, Decimals, & Perce	Lesson 9-5	
2	Operations & Algebraic Thinking	4.OA.3	Comparing the Results of a Survey	Lesson 9-6	
	Measurement and Data		Comparing Population Data	Lesson 9-7	
2	Number & Operations in Base 10	4.NBT.4	Multiplication of Decimals	Lesson 9-8	
2	Operations & Algebraic Thinking	4.OA.3	Division of Decimals	Lesson 9-9	
2			Review & Summative Assessment		
Total Days = 8					
Topic: Reflections & Symmetry					
Pacing Guide	**Domain**	**Code**	**Objectives**	**Resource**	**Supplements/Manipulatives**
	Geometry		Finding Lines of Reflection	Lesson 10-2	
	Geometry		Properties of Reflections	Lesson 10-3	
4	Geometry	4.G.1	Line Symmetry	Lesson 10-4	

4th Grade Math Curriculum Sequence

	Geometry		Frieze Patterns	Lesson 10-5	
	Operations and Algebraic Thinking		Positive and Negative Numbers	Lesson 10-6	
2			Review & Summative Assessment		
Total Days = 6					
Pacing Guide			**Type of Instruction or Assessment**		
24			Summative Assessment		
11			Spiral Review		
112			Classroom Instruction		
24			Reteaching Concepts		
6			Standardized Testing		
3			Miscellaneous Class Time Loss		
Total Days = 180					

4th Grade Math Curriculum Sequence

5th Grade Math Curriculum Sequence

Topic: Place Value				**Scott Foresman-Addison Wesley**	
Pacing Guide	**Domain**	**Code**	**Objectives**	**Resource**	**Supplements/Manipulatives**
0.5	Number and Operations Base Ten	5.NBT.3	Place Value	Lesson 1-1	Place Value Chart
0.5	Number and Operations Base Ten	5.NBT.3a	Comparing/Ordering Whole Numbers	Lesson 1-2	Place Value Blocks
1	Number and Operations Base Ten	5.NBT.3a	Place Value Through Thounsandths	Lesson 1-3	Place Value Chart
1	Number and Operations Base Ten	5.NBT.2	Comparing/Ordering Decimals	Lesson 1-4	Place Value Chart
1	Number and Operations Base Ten	5.NBT.3b	Place Value Patterns	Lesson 1-5 & 1-6	Place Value Chart
1	Number and Operations Base Ten	5. NBT.5	Communative/Associative Properties	Lesson 1-7	
1	Number and Operations Base Ten	5.NBT.4	Rounding Whole Numbers & Decimals	Lesson 1-8	
1	Number and Operations Base Ten	5.NBT.4	Rounding to the Nearest Place Value	Lesson 1-9	
1	Number and Operations Base Ten	5.NBT.1	Problem Solving Strategies with Decimals	Lesson 1-10	
1	Number and Operations Base Ten	5.NBT.7	Adding/Subtracting Whole Numbers	Lesson 1-11	
1	Number and Operations Base Ten	5.NBT.7	Adding Decimals	Lesson 1-12	
1	Number and Operations Base Ten	5.NBT.7	Subtracting Decimals	Lesson 1-13	
1	Number and Operations Base Ten	5.NBT. 7	Problem Solving Strategies Decimal Oper	Lesson 1-14 & 1-15	
1	**Assessment**		Summative Assessment		
Total Days = 13					
Topic: Multiplication					
Pacing Guide	**Domain**	**Code**	**Objectives**	**Resource**	**Supplements/Manipulatives**
1	Number and Operations Base Ten	5.NBT.5	Multiplication Patterns	Lesson 2-1	
1	Number and Operations Base Ten	5.NBT.5	Multiplication Distributive Property	Lesson 2-2 & 2-3	
1	Number and Operations Base Ten	5.NBT.5	Multiplication Whole Numbers	Lesson 2-4	
1	Number and Operations Base Ten	5.NBT.5	Problem Solving with Multiplcation	Lesson 2-6	
1	Number and Operations Base Ten	5.NBT.2	Multiply with Powers of 10	Lesson 2-7	
1	Number and Operations Base Ten	5.NBT.7	Multiply whole numbers & Decimals	Lesson 2-8 & 2-9	
1	Number and Operations Base Ten	5.NBT.7	Multiply Decimal by Decimal	Lesson 2-11	
1	Operations and Algebraic Thinking	5.OA.1	Variables and Expressions	Lesson 2-12	
1	Operations and Algebraic Thinking	5.OA.2	Problem Solving Key Words	Lesson 2-13	
1	Operations and Algebraic Thinking	5.OA.3	Finding A Rule	Lesson 2-14	
1	Operations and Algebraic Thinking	5.OA.3	Solving Equations	Lesson 2-15	
1	**Assessment**		Summative Assessment		

Total Days = 12					
Topic: Division					
Pacing Guide	**Domain**	**Code**	**Objectives**	**Resource**	**Supplements/Manipulatives**
1	Number and Operations Base Ten	5.NBT.7	Division Meanings and Patterns	Les.3-1,3-2	
1	Number and Operations Base Ten	5.NBT.7	Dividing Whole Numbers	Les. 3-3,3-6	
1	Number and Operations Base Ten	5.NBT.7	Zeros in the Quotient	Les. 3-7	
1	Number and Operations Base Ten	5.NBT.7	Dividing Larger Dividends	Les. 3-8	
1	Number and Operations Base Ten	5.NBT.7	Dividing Money	Les. 3-9	
1	Number and Operations Base Ten	5.NBT.7	Factors and Divisibility	Les. 3-10	
1	Number and Operations Base Ten	5.NBT.7	Prime and Composite Numbers	Les 3-11	
1	Number and Operations Base Ten	5.NBT.7	Interpreting Remainders	Les 3-12	
1	Operations and Algebraic Thinking	5.OA.1	Exponents	Teacher Resources	Teacher generated wksts.
1	Operations and Algebraic Thinking	5.OA.1	Order of Operations	Les. 3-13	
1	Operations and Algebraic Thinking	5.OA.3	Graphing Ordered Pairs	Les. 3-14	
1	Operations and Algebraic Thinking	5.OA.3	Rules, Tables, and Graphs	Les. 3-15	
1	**Assessment**		Summative Assessment		
Total Days=13					
Topic: More Division					
Pacing Guide	**Domain**	**Code**	**Objectives**	**Resource**	**Supplements/Manipulatives**
1	Number and Operations Base Ten	5.NBT.7	Problem Solving: Try, Check, and Revise	Les. 4-3	
1	Number and Operations Base Ten	5.NBT.2	Dividing by Multiples of 10	Les. 4-1	
1	Number and Operations Base Ten	5.NBT.6	Dividing by Two Digit Divisors	Les. 4-2, 4-4	
2	Number and Operations Base Ten	5.NBT.6	Dividing Larger Numbers	Les. 4-5	
2	Number and Operations Base Ten	5.NBT.6	Dividing With Zeros in the Quotient	Les. 4-7	
1	Number and Operations Base Ten	5.NBT.7	Dividing Decimals by the Powers of Ten	Les. 4-9	
1	Number and Operations Base Ten	5.NBT.6	Dividing Money by Two Digit Divisors	Les. 4-10	
1	Number and Operations Base Ten	5.NBT.7	Dividing Decimals by Whole Numbers	Les. 4-11	
1	Number and Operations Base Ten	5.NBT.7	Multiple Step Problems	Les. 4-8	
1	Number and Operations Base Ten	5.NBT.7	Problem Solving Applications	Les. 4-12	
1	**Assessment**		Summative Assessment		
Total Days=13					

5th Grade Math Curriculum Sequence

Topic: Data/Graphs					
Pacing Guide	**Domain**	**Code**	**Objectives**	**Resource**	**Supplements/Manipulatives**
1	Measurement and Data	5.MD.2	Data, Surveys, Line Plots	Les. 5-1	
1	Measurement and Data	5.MD.2	Bar Graphs	Les. 5-2	
1	Measurement and Data	5.G.1	Line Graphs	Les. 5-3	
1	Measurement and Data	5.MD.2	Stem and Leaf Plots	Les. 5-4	
1	Measurement and Data	5.G.2	Make a Graph	Les. 5-5	
1	Measurement and Data	5.MD.1	Circle Graphs	Les. 5-7	
1	Measurement and Data	5.G.2	Choosing an Appropriate Graph	Les. 5-8	
2	Measurement and Data	5.MD.2	Mean, Median, Mode, and Range	Les. 5-6	
1	**Assessment**		Summative Assessment		
Total Days=10					
Topic: Geometry					
Pacing Guide	**Domain**	**Code**	**Objectives**	**Resource**	**Supplements/Manipulatives**
1	Geometry	5.G.3	Geometric Ideas	Les. 6-1	
1	Geometry	5.G.4	Measuring and Classifying Angles	Les. 6-2	
1	Geometry	5.G.3	Segments and Angles	Les. 6-2	
1	Geometry	5.G.3	Polygons	Les. 6-4	
1	Geometry	5.G.3	Classifying Triangles	Les. 6-5	
1	Geometry	5.G.3,4	Classifying Quadrilaterals	Les. 6-6	
1	Geometry	5.G.3,4	Congruence and Similarity/Symetry	Les. 6-9, 6-11	
1	Geometry	5.G.3,4	Transformations	Les. 6-10	
1	**Assessment**		Summative Assessment		
Total Days=9					
Topic: Fractions					
Pacing Guide	**Domain**	**Code**	**Objectives**	**Resource**	**Supplements/Manipulatives**
1	Number and Operations: Fractions	5.NF.6	Meanings of Fractions	Les. 7-1,7-2	
2	Number and Operations: Fractions	5.NF.6	Mixed Numbers	Les. 7-3	pizza game
1	Number and Operations: Fractions	5.NF.6	Fractions and Mixed Numbers on a No.Line	Les. 7-5	

1	Number and Operations: Fractions	5.NF.4	Understanding Equivalent Fractions	Les. 7-7	fraction strips
2	Number and Operations: Fractions	5.NF.4	Finding Equivalent Fractions	Les. 7-8	
2	Number and Operations: Fractions	5.NF.4	Fractions in Simplest Form	Les. 7-10	
1	Number and Operations: Fractions	5.NF.4	Understanding and Comparing Fractions	Les. 7-11	
2	Number and Operations: Fractions	5.NF.4	Comparing and Ordering Fractions	Les. 7-12	
2	Number and Operations: Fractions	5.NF.4	Fractions and Decimals	Les 7-13	
1	**Assessment**		Summative Assessment		
Total Days=15					
Topic: Fraction Op.					
Pacing Guide	**Domain**	**Code**	**Objectives**	**Resource**	**Supplements/Manipulatives**
1	Number and Operations: Fractions	5.NF.2	Adding/Subtr. Fractions with Like Denomin.	Les. 8-1	
1	Number and Operations: Fractions	5.NF.1	Least Common Denominator	Les. 8-3	
2	Number and Operations: Fractions	5.NF.1	Adding/Subrt.Fractions with Unlike Denomi.	Les 8-4	
2	Number and Operations: Fractions	5.NF.1	Adding Mixed Numbers	Les 8-7	
2	Number and Operations: Fractions	5.NF.1	Subtracting Mixed Numbers	Les. 8-8	
1	Number and Operations: Fractions	5.NF.6	Multiplying Fractions by Whole Numbers	Les. 8-10	
1	Number and Operations: Fractions	5.NF.4/5	Multiplying Fractions	Les. 8-12	
1	Number and Operations: Fractions	5.NF.6	Multiplying Mixed Numbers	Les. 8-13	
1	Number and Operations: Fractions	5.NF.3/7	Understanding Division with Fractions	Les. 8-14	
1	**Assessment**		Summative Assessment		
Total Days=13					
Topic: Measurement					
Pacing Guide	**Domain**	**Code**	**Objectives**	**Resource**	**Supplements/Manipulatives**
1	Measurement and Data	5.MD.1	Customary Units of Measurement	Les. 9-1	
1	Measurement and Data	5.MD.1	Measuring with Fractions of an Inch	Les. 9-2	
1	Measurement and Data	5.MD.1	Metric Units of Length	Les. 9-3	
1	Measurement and Data	5.MD.1	Converting Metric Units	Les. 9-4	
1	Geometry	7.G.4	Finding Perimeter	Les. 9-5	
1	Measurement and Data	4.MD.3	Finding Circumference	Les. 9-6	
1	Measurement and Data	5.MD.1	Finding Area	Les. 9-7	

1	Number and Operations: Fractions	5.NF.4b	Area: Rectangles and Squares	Les. 9-8	
1	Number and Operations: Fractions	5.NF.4b	Area: Parallelograms	Les. 9-9	
1	Geometry	6.G.1	Area: Triangles	Les. 9-10	
0.5	Measurement and Data	3.MD.1	Time and Time Zones	Les. 9-12	
0.5	Measurement and Data	3.MD.1	Elapsed Time	Les. 9-13	
1	**Assessment**		Summative Assessment		
Total Days= 12					
Topic: Meas. Solids					
Pacing Guide	**Domain**	**Code**	**Objectives**	**Resource**	**Supplements/Manipulatives**
1	Measurement and Data	5.MD.3	Understanding Solid Figures	Les. 10-1	Res. Rm. Solid shapes
1	Measurement and Data	3.MD.5	Surface Area	Les. 10-3	Res. Rm. Solid shapes
1	Measurement and Data	5.MD.4	Volume	Les. 10-5	unifix cubes
1	Measurement and Data	5.MD.5	Customary Units of Capacity	Les. 10-6	
1	Measurement and Data	5.MD.5	Metric Units of Capacity	Les. 10-7	
1	Measurement and Data	4.MD.1	Customary Units of Weight	Les. 10-8	
1	Measurement and Data	5.MD.1	Metric Units of Mass	Les. 10-9	
1	Measurement and Data	5.MD.4,5	Problem Solving: Volume	Les. 10-11	
1	**Assessment**		Summative Assessment		
Total Days=7-9					
Topic: Algebra				*Ch.11 meets no standards	
Pacing Guide	**Domain**	**Code**	**Objectives**	**Resource**	**Supplements/Manipulatives**
1	Operations and Algebraic Thinking	5.OA.1	Understanding Properties of Equality	Les. 12-1	classroom scale
1	Operations and Algebraic Thinking	5.OA.2	Adding and Subtracting Equations	Les. 12-2	
1	Operations and Algebraic Thinking	5.OA.2	Multiplication and Division of Equations	Les. 12-3	
1	Operations and Algebraic Thinking	5.OA.2	Writing Equations	Les. 12-4	
1	**Assessment**		Summative Assessment		
Total Days=5					

6th Grade Math Curriculum Sequence

Topic: Decimals					
Pacing Guide	**Domain**	**Code**	**Objectives**	**Resource**	**Supplements/Manipulatives**
1	The Number System	6.NS.3	Writing and comparing whole #'s	Lesson 1-1	
1	The Number System	6.NS.3	Read and write decimals	Lesson 1-2	
1	The Number System	6.NS.3	Compare and order decimals	Lesson 1-3	
1	The Number System	6.NS.3	Learning various estimation skills	Lesson 1-4	
4	The Number System	6.NS.2 & 3	Four Operations with decimals	Lesson 1-5 thru 1-9	
1	The Number System	6.NS.8	Problem solving with decimals	Lesson 1-6	
1	Expressions & Equations	6.EE.1	Orders of operation	Lesson 1-10	
2	Assessment		Summative Assessment	Exam View Test	
Total Days = 12					
Topic: Patterns and Variables					
Pacing Guide	**Domain**	**Code**	**Objectives**	**Resource**	**Supplements/Manipulatives**
2	Expressions & Equations	6.EE.2	Writing patterns and describe patterns with rules	Lesson 2-1	
2	Expressions & Equations	6.EE.2	Intro to variables and expressions	Lesson 2-2 Thru 2-4	
3	Expressions & Equations	6.EE.5	Solving one - step equations	Lesson 2-5 Thru 2-7	
1	Expressions & Equations	6.EE.1	Exponents	Lesson 2-8	
1	Expressions & Equations	6.EE.3	Distributive Property	Lesson 2-9	
2	Assessment		Summative Assessment	Exam View Test	
Total Days = 11					
Topic: Number Theory and Fractions					
Pacing Guide	**Domain**	**Code**	**Objectives**	**Resource**	**Supplements/Manipulatives**
1	The Number System	6.NS.2	Divisibility tests	Lesson 3-1	Divisibility Rule Posters
1	The Number System	6.NS.4	Prime factorization	Lesson 3-2	Factor Trees
2	The Number System	6.NS.4	Greatest common factor/Least common multiple	Lesson 3-3 & 3-6	
2	The Number System	6.NS.1	Equivalent fractions/Mixed-Improper	Lesson 3-4 & 3-5	
1	The Number System	6.NS.1	Comparing fractions	Lesson 3-7	
1	The Number System	6.NS.1	Relationships between fractions and decimals	Lesson 3-8	
1	The Number System	6.NS.8	Using trial/error to solve real world problems	Lesson 3-9	

6th Grade Math Curriculum Sequence

2	Assessment		Summative Assessment	Exam View Test	
1	Spiral Review		Commulitive Review		
Total Days = 12					
Topic: Operations with Fractions					
Pacing Guide	**Domain**	**Code**	**Objectives**	**Resource**	**Supplements/Manipulatives**
2			Estimation skills with the four opertions	Lesson 4-1	
5	The Number System	6.NS.1	Addition and subtraction of fractions	Lesson 4-2 Thru 4-5	
2	Expressions & Equations	6.EE.5	Solving equations containing addition and subtraction	Lesson 4-6 & 5-5	
5	The Number System	6.NS.1	Multiplication and division of fractions	Lesson 5-1 Thru 5-4	
2	The Number System	6.NS.8	Problem solving with fractions	Lesson 4-8 & 5-6	
2			Conversions with customary units	Lesson 5-7 & 5-8	
1			Elapsed time and conversion of time units	Lesson 4-7	
4	Assessment		Summative Assessment	Exam View Test	
2	Spiral Review		Cumulative Review		
Total Days = 25					
Topic: Ratios/Rates/Proportions/Percents					
Pacing Guide	**Domain**	**Code**	**Objectives**	**Resource**	**Supplements/Manipulatives**
2	Ratios/Proportions	6.RP.1	Writing ratios and rates	Lesson 6-1 & 6-2	
2	Ratios/Proportions	6.RP.2	Understanding proportions and solving a propotion	Lesson 6-3 & 6-4	
1	Ratios/Proportions	6.RP.2	Using proportions to solve real world problems	Lesson 6-5	
2	Ratios/Proportions	6.RP.3	Relationships between percents/decimals/fractions	Lesson 6-6	
1	Ratios/Proportions	6.RP.3	Solving percent problems	Lesson 6-7	
1			Estimation with percents	Lesson 6-8	
1	Ratios/Proportions	6.RP.3	Using percents to solve real world problems	Lesson 6-9	
1	Ratios/Proportions	6.RP.3	Understanding percent > 100% and < 1%	Extension Page 310	
2	Assessment		Summative Assessment	Exam View Test	
1	Spiral Review		Cumulative Review	"	
Total Days = 14					
Topic: Data and Graphs					

6th Grade Math Curriculum Sequence

Pacing Guide	**Domain**	**Code**	**Objectives**	**Resource**	**Supplements/Manipulatives**
1	Statistics/Probability	6.SP.5	Understanding mean, median, and mode	Lesson 7-1	
6	Statistics/Probability	6.SP.1 - 6.SP.4	Organizing and representing data by various means	Lesson 7-2 Thru 7-7	
1	Statistics/Probability	6.SP.1	Understanding misleading data and graphs	Lesson 7-8	
2	Assessment		Summative Assessment	Exam View Test	
1	Spiral Review		Cumulative Review		
Total Days = 11					
Topic: Introduction to Geometry					
Pacing Guide	**Domain**	**Code**	**Objectives**	**Resource**	**Supplements/Manipulatives**
2	Geometry	6.G.3	Defining, labeling, and drawing basic geometric terms	Lesson 8-1	
1	Geometry	6.G.3	Defining special angles	Lesson 8-2 & 8-3	
2	Geometry	6.G.3	Classifying polygons	Lesson 8-4 & 8-5	
2	Geometry	6.G.3	Relationships with congruent and similar polygons	Lesson 8-7	
1	Geometry	6.G.3	Defining and recognizing line symmetry in figures	Lesson 8-8	
2	Geometry	6.G.3	Defining and recognizing 3 types of transformations	Lesson 8-9	
1	Problem Solving	6.G.3	Using logical reasoning to solve real world problems	Lesson 8-6	
2	Assessment		Summative Assessment	Exam View Test	
1	Spiral Review		Cumulative Review		
Total Days = 14					
Topic: Geometry and Measurement					
Pacing Guide	**Domain**	**Code**	**Objectives**	**Resource**	**Supplements/Manipulatives**
2			Measuring and converting within the metric system	Lesson 9-1 & 9-2	
4	Geometry	6.G.1	Determing perimeters/areas of polygons and circles	Lesson 9-3 Thru 9-6	
1	Geometry	6.G.4	Understanding 3-D figures and spatial reasoning	Lesson 9-7	
3	Geometry	6.G.2	Deteriming surface area of prisms and cylinders	Lesson 9-8	
1	Geometry	6.G.2	Determing volume of prisms and cylinders	Lesson 9-9	
1	Problem Solving	6.G.4	Using working backwards to solve real world problems	Lesson 9-10	
2	Assessment		Summative Assessment	Exam View Test	
1	Spiral Review		Cumulative Review		
Total Days = 15					

6th Grade Math Curriculum Sequence

Topic: Integers					
Pacing Guide	**Domain**	**Code**	**Objectives**	**Resource**	**Supplements/Manipulatives**
1	The Number System	6.NS.5	Understanding integers and the number line	Lesson 10-1	Number Line
4	The Number System	6.NS.7	Four Operations with integers	Lesson 10-2 Thru 10-5	Integer Rule Posters
1	The Number System	6.NS.6	Graphing ordered pairs in the coordinate plane	Lesson 10-6	Graphing Paper
1	The Number System	6.NS.8	Using integers in real world problems	Lesson 10-7	
2	The Number System	6.NS.6	Graphing functions to solve real world problems	Lesson 10-8 & 10-9	
2	Assessment		Summative Assessment	Exam View Test	
1	Spiral Review		Cumulative Review		
Total Days = 12					
Topic: Probability					
Pacing Guide	**Domain**	**Code**	**Objectives**	**Resource**	**Supplements/Manipulatives**
2	Statistics/Probability	6.SP.4-5	Defining theoretical and experimental probability	Lesson 11-1 & 11-2	
1	Statistics/Probability	6.SP.4-5	Using probability to make predictions from data	Lesson 11-3	
2	Statistics/Probability	6.SP.4-5	Using tree diagrams/fundamental counting principle	Lesson 11-5	
1	Statistics/Probability	6.SP.4-5	Exploring permutations and factorials	Lesson 11-6	
1	Statistics/Probability	6.SP.4-5	Determining outcomes/probabilities of independent eve	Lesson 11-7	
1	Statistics/Probability	6.SP.4-5	Using simulation to solve real world problems	Lesson 11-4	
2	Assessment		Summative Assessment	Exam View Test	
1	Spiral Review		Cumulative Review		
Total Days = 11					
Topic: Solving Equations and Inequalities					
Pacing Guide	**Domain**	**Code**	**Objectives**	**Resource**	**Supplements/Manipulatives**
2	Expressions & Equations	6.EE.5	Solving two step equations	Lesson 12-1	
2	Expressions & Equations	6.EE.5-8	Intro to inequalities and solving one step inequalities	Lesson 12-2 & 12-3	
1	Expressions & Equations	6.EE.9	Intro to rational numbers and square roots	Lesson 12-5	
1			Intro to pythagorean theorem	Lesson 12-6	
1			Using pythagorean theorem to find missing side	Lesson 12-6	
1	Expressions & Equations	6.EE.9	Using various strategies to solve real world problems	Lesson 12-4	

6th Grade Math Curriculum Sequence

2	Assessment		Summative Asssessment	Exam View Test	
1	Spiral Review		Cumulative Review		
Total Days = 10					
Pacing Guide			**Type of Instruction or Assessment**		
24			Summative Assessment		
11			Spiral Review		
112			Classroom Instruction		
24			Reteaching Concepts		
6			Standardized Testing		
3			Miscellaneous Class Time Loss		
Total Days = 180					

7th Grade Math Curriculum Sequence

Topic: Decimals and Integers					
Pacing Guide	**Domain**	**Code**	**Objectives**	**Resource**	**Supplements/Manipulatives**
1	Number Sense	7.NS.1-2	Estimation skills with the four opertions	Prentice Hall - Course 2	
2	Number Sense	7.NS.2	Four Operations with decimals	"	
1	Number Sense	7.NS.1-2	Measuring and converting within the metric system	"	
1	Number Sense	7.NS.1	Comparing and ordering the integers	"	
1	Number Sense	7.NS.3	Problem solving with logic and trial/error	"	
2	Number Sense	7.NS.1-2	Four Operations with integers	"	
1	Number Sense	7.SP.1	Orders of operation and the distributive property	"	
1	Probability/Statistics	7.SP.4	Measures of central tendancy (mean, median, mode)	"	
2	Assessment		Summative Assessment		
Total Days = 12					
Topic: Equations and Inequalities					
Pacing Guide	**Domain**	**Code**	**Objectives**	**Resource**	**Supplements/Manipulatives**
1	Expression/Equations	7.EE.1	Writing and evaluating algebraic expressions	Prentice Hall - Course 2	
2	Expression/Equations	7.EE.3	Solving one - step equations	"	
2	Expression/Equations	7.EE.3	Solving multiple step equations	"	
1	Expression/Equations	7.EE.4	Using equation to model and solve problems	"	
1	Expression/Equations	7.EE.4	Graphing and writing inequalities	"	
2	Expression/Equations	7.EE.4	Solving one - step inequalities	"	
2	Assessment		Summative Assessment		
1	Spiral Review		Cumulative Review		
Total Days = 12					
Topic: Number Theory, Exponents, and Fractions					
Pacing Guide	**Domain**	**Code**	**Objectives**	**Resource**	**Supplements/Manipulatives**
1	Number Sense	7.NS.2	Exponents and Order of Operations	Prentice Hall - Course 2	
1	Number Sense	7.NS.2	Scientific notation with large numbers	"	
1	Number Sense	7.NS.2	Divisibility tests	"	
1	Number Sense	7.NS.2	Prime factorization	"	

7th Grade Math Curriculum Sequence

1	Number Sense	7.NS.2	Simplifying fractions using greatest common factor	"	
1	Number Sense	7.NS.2	Comparing and ordering fractions	"	
1	Number Sense	7.NS.3	Using patterns to solve real - world problems	"	
1	Number Sense	7.NS.2	Equivalent fractions/Mixed and Improper	"	
Pacing Guide	**Domain**	**Code**	**Objectives**	**Resource**	**Supplements/Manipulatives**
1	Number Sense	7.NS.2	Relationships between fractions and decimals	Prentice Hall - Course 2	
1	Number Sense	7.NS.2	Comparing and ordering rational numbers	"	
2	Assessment		Summative Assessment		
1	Spiral Review		Cumulative Review		
Total Days = 13					
Topic: Operations with Fractions					
Pacing Guide	**Domain**	**Code**	**Objectives**	**Resource**	**Supplements/Manipulatives**
1	Number Sense	7.NS.1-2	Estimation skills with the four opertions	Prentice Hall - Course 2	
3	Number Sense	7.NS.1	Addition and subtraction of fractions	"	
2	Number Sense	7.NS.2	Multiplication and division of fractions	"	
1	Expressions/Equations	7.EE.3	Solving multiple step equations containing fractions	"	
1	Expressions/Equations	7.NS.3	Using trial and error to solve real - world problems	"	
1	Number Sense	7.NS.2	Conversions with customary units	"	
1	Number Sense	7.NS.1	Precision measuring	"	
2	Assessment		Summative Assessment		
1	Spiral Review		Cumulative Review		
Total Days = 13					
Topic: Ratios/Rates/Proportions/Percents					
Pacing Guide	**Domain**	**Code**	**Objectives**	**Resource**	**Supplements/Manipulatives**
1	Ratios/Proportions	7.RP.1	Writing ratios and rates	Prentice Hall - Course 2	
1	Ratios/Proportions	7.RP.2	Unit rates and proportions	"	
1	Ratios/Proportions	7.RP.3	Using diagrams to solve real world problems	"	
2	Ratios/Proportions	7.RP.2	Understanding proportions and solving a proportion	"	
2	Ratios/Proportions	7.RP.3	Using proportions to solve problems	"	
2	Assessment		Summative Assessment		

7th Grade Math Curriculum Sequence

1	Spiral Review		Cumulative Review		
Total Days = 10					
Topic: Percents					
Pacing Guide	**Domain**	**Code**	**Objectives**	**Resource**	**Supplements/Manipulatives**
1	Ratios/Proportions	7.RP.2	Understanding percents	Prentice Hall - Course 2	
1	Number Sense	7.NS.2	Relationships between percents, decimals, & fractions	"	
1	Number Sense	7.NS.2	Understanding large and small percents	"	
2	Ratios/Proportions	7.RP.3	Solving percent problems using proportions	"	
3	Ratios/Proportions	7.RP.3	Application of percents with real - world problems		
2	Assessment		Summative Assessment		
1	Spiral Review		Cumulative Review		
Total Days = 11					
Topic: Introduction to Geometry					
Pacing Guide	**Domain**	**Code**	**Objectives**	**Resource**	**Supplements/Manipulatives**
2	Geometry	7.G.5	Defining, labeling, and drawing basic geometric terms	Prentice Hall - Course 2	
1	Geometry	7.G.2	Measuring and classifying angles	"	
2	Geometry	7.G.2	Constructing segment and angle bisectors	"	
1	Geometry	7.G.3	Classifying triangles and angle relationship	"	
1	Geometry	7.G.3	Classifying polygons	"	
1	Geometry	7.G.6	Using patterns to solve real world problems	"	
1	Geometry	7.G.1	Relationships with congruent figures	"	
1	Geometry	7.G.4	Identifying parts of a circle	"	
1	Geometry	7.G.6	Analyzing and constructing circle graphs	"	
2	Assessment		Summative Assessment		
1	Spiral Review		Cumulative Review		

7th Grade Math Curriculum Sequence

Total Days = 14					
Topic: Geometry and Measurement					
Pacing Guide	**Domain**	**Code**	**Objectives**	**Resource**	**Supplements/Manipulatives**
2	Geometry	7.G.6	Estimating length and area	Prentice Hall - Course 2	
3	Geometry	7.G.6	Determing perimeters/areas of polygons and circles	"	
1	Number Sense	7.NS.3	Understanding irrational numbers and square roots	"	
2	Geometry	7.G.6	Understanding and using the pythagorean theorem	"	
1	Geometry	7.G.6	Classifying and drawing 3-D figures	"	
2	Geometry	7.G.6	Deteriming surface area of prisms and cylinders	"	
2	Geometry	7.G.6	Determing volume of prisms and cylinders	"	
Pacing Guide	**Domain**	**Code**	**Objectives**	**Resource**	**Supplements/Manipulatives**
1	Geometry	7.G.6	Using trial and error to solve real world problems	"	
2	Assessment		Summative Assessment		
1	Spiral Review		Cumulative Review		
Total Days = 17					
Topic: Relationship between Patterns and Functions					
Pacing Guide	**Domain**	**Code**	**Objectives**	**Resource**	**Supplements/Manipulatives**
1	Expressions/Equations	7.EE.3	Relationship between number patterns and graphs	Prentice Hall - Course 2	
1	Expressions/Equations	7.EE.3	Identifying number sequences	"	
2	Expressions/Equations	7.EE.3	Graphing and writing functions for number sequences	"	
1	Expressions/Equations	7.EE.3	Applications with number sequences	"	
1	Expressions/Equations	7.EE.3	Interpreting and sketching graphs	"	
1	Expressions/Equations	7.EE.4	Understanding simple and annual compound interest	"	
1	Expressions/Equations	7.EE.4	Using equations to model real - world problems	"	
1	Expressions/Equations	7.EE.3	Learning how to manipulate equations	"	
2	Assessment		Summative Assessment		
1	Spiral Review		Cumulative Review		
Total Days = 12					
Topic: Coordinate Plane					

7th Grade Math Curriculum Sequence

Pacing Guide	**Domain**	**Code**	**Objectives**	**Resource**	**Supplements/Manipulatives**
1	Expressions/Equations	7.EE.3	Plotting points in the coordinate plane	Prentice Hall - Course 2	
1	Expressions/Equations	7.EE.3	Graphing linear equations	"	
2	Expressions/Equations	7.EE.3	Determining the slope of a line	"	
1	Expressions/Equations	7.EE.3	Exploring non-linear relationships	"	
1	Problem Solving	7.EE.4	Using tables and graphs to solve real - world problems	"	
1	Assessment		Summative Assessment		
Total Days = 7					
Topic: Transformations in the Coordinate Plane					
Pacing Guide	**Domain**	**Code**	**Objectives**	**Resource**	**Supplements/Manipulatives**
1	Geometry	7.G.1	Understanding translations	Prentice Hall - Course 2	
1	Geometry	7.G.1	Understanding reflections and line symmetry	"	
1	Geometry	7.G.1	Understanding rotations and point symmetry	"	
1	Assessment		summative Assessment	"	
1	Spiral Review		Cumulative Review	"	
Total Days = 5					
Topic: Displaying and Analyzing Data					
Pacing Guide	**Domain**	**Code**	**Objectives**	**Resource**	**Supplements/Manipulatives**
2	Statistics/Probability	7.SP.1	Constructing frequency chart, line plots, & histograms	Prentice Hall - Course 2	
1	Statistics/Probability	7.SP.1	Interpreting double line and bar graphs	"	
2	Statistics/Probability	7.SP.1	Constructing stem/leaf plots & box/whisker plots	"	
1	Statistics/Probability	7.SP.2	Using logical reasoning to solve real -world problems	"	
1	Statistics/Probability	7.SP.2	Understanding random sample and survey questions	"	
1	Statistics/Probability	7.SP.6	Estimating population size using proportions	"	
1	Statistics/Probability	7.SP.2	Identifying misleading graphs	"	
1	Statistics/Probability	7.SP.2	Interpreting and consturcting scatter plots	"	
2	Assessment		Summative Asssessment		
1	Spiral Review		Cumulative Review		
Total Days = 13					

7th Grade Math Curriculum Sequence

Topic: Probability					
Pacing Guide	**Domain**	**Code**	**Objectives**	**Resource**	**Supplements/Manipulatives**
1	Statistics/Probability	7.SP.5	Determining probablity and odds of an event	Prentice Hall - Course 2	
1	Statistics/Probability	7.SP.5	Using simulation to find experimental probability	"	
1	Statistics/Probability	7.SP.5	Using simulation to solve real world problems	"	
1	Statistics/Probability	7.SP.6	Using tree diagrams/fundamental counting principle	"	
1	Statistics/Probability	7.SP.7	Probability of independent and dependent events	"	
2	Statistics/Probability	7.SP.7	Determining permutations and combinations	"	
1	Assessment		Summative Assessment	"	
1	Spiral Review		Cumulative Review	"	
Total Days = 9					
Pacing Guide			**Type of Instruction or Assessment**		
24			Summative Assessment		
11			Spiral Review		
138			Classroom Instruction		
4			Standardized Testing		
3			Miscellaneous Class Time Loss		
Total Days = 180					

8th Grade Math Curriculum Sequence

Topic: Algebraic Expression and Integers					
Pacing Guide	**Domain**	**Code**	**Objectives**	**Resource**	**Supplements/Manipulatives**
2	Expressions/Equations	Extra	Problem solving plan - Story problem format	Prentice Hall - Course 3	
1	Number Sense	7.NS.1-2	Evaluating expression using orders of operation	"	
1	Number Sense	7.NS.1-2	Introduction to integers and absolute value	"	
2	Number Sense	7.NS.1-2	Four Operations with integers	"	
1	Number Sense	7.NS.1-2	Exponents and orders of operation	"	
1	Number Sense	7.NS.1-2	Using and identifying properties with integers	"	
1	Statistics/Probability	7.SP.2	Using integers with mean, median, and mode	"	
2	Assessment		Summative Assessment	"	
Total Days = 11					
Topic: Equations and Inequalities					
Pacing Guide	**Domain**	**Code**	**Objectives**	**Resource**	**Supplements/Manipulatives**
1	Expressions/Equations	8.EE.7	Solving one - step equations	Prentice Hall - Course 3	
1	Expressions/Equations	8.EE.7	Solving two - step equations	"	
1	Expressions/Equations	8.EE.7	Writing and evaluating algebraic expressions	"	
2	Expressions/Equations	8.EE.7	Solving multiple step equations	"	
1	Problem Solving	8.EE.7	Using diagrams to model and solve problems	"	
2	Expressions/Equations	8.EE.7	Solving and graphing one - step inequalities	"	
1	Expressions/Equations	8.EE.7	Solving and graphing two - step inequalities		
2	Assessment		Summative Assessment	"	
1	Spiral Review		Cumulative Review	"	
Total Days = 12					
Topic: Graphing in the Coordinate Plane					
Pacing Guide	**Domain**	**Code**	**Objectives**	**Resource**	**Supplements/Manipulatives**
2	Expressions/Equations	8.EE.8	Graphing points and equations	Prentice Hall - Course 3	
2	Expressions/Equations	8.EE.8	Finding slopes & y-intercepts as a means of graphing	"	
1	Expressions/Equations	8.EE.8	Using equations to solve real - world problems	"	
1	Expressions/Equations	8.EE.8	Finding intercepts as a means of graphing	"	
1	Expressions/Equations	8.EE.8	Solving symstems of linear equations	"	
1	Assessment		Summative Assessment	"	
Total Days = 8					
Topic: Transformations					

8th Grade Math Curriculum Sequence

Pacing Guide	**Domain**		**Objectives**	**Resource**	**Supplements/Manipulatives**
3	Geometry	8.G.1	Graphing translations, reflections, and rotations	Prentice Hall - Course 3	
1	Assessment		Summative Assessment	"	
1	Spiral Review		Cumulative Review	"	
Total Days = 5					
Topic: Real Numbers					
Pacing Guide	**Domain**	**Code**	**Objectives**	**Resource**	**Supplements/Manipulatives**
1	Number Sense	8.NS.1	Prime and composite numbers and GCF	Prentice Hall - Course 3	
1	Number Sense	8.NS.1	Equivalent forms of rational numbers	"	
1	Number Sense	8.NS.1	Comparing and ordering rational numbers	"	
2	Number Sense	8.NS.1	Using the four operations	"	
1	Number Sense	8.NS.1	Using working backwards to solve real - world problems	"	
1	Number Sense	8.NS.1	Using formulas to solve problems	"	
1	Number Sense	8.NS.2	Exploring irrational numbers and square roots		
1	Geometry	8.G.7	Using the pathagorean theorem to solve right triangles	"	
2	Assessment		Summative Assessment	"	
1	Spiral Review		Cumulative Review	"	
Total Days = 12					
Topic: Application of Proportions					
Pacing Guide	**Domain**	**Code**	**Objectives**	**Resource**	**Supplements/Manipulatives**
1	Expressions/Equations	8.EE.5	Writing ratios and rates	Prentice Hall - Course 3	
1	Expressions/Equations	8.EE.5	Converting units of measures	"	
1	Expressions/Equations	8.EE.5	Solving proportions	"	
3	Problem Solving	8.EE.6	Using proportions in similar figures and scale models	"	
1	Geometry	8.G.3	Determining dialation images and scale factors	"	
1	Assessment		Summative Assessment	"	
Total Days = 8					
Topic:Trigonometry					

8th Grade Math Curriculum Sequence

Pacing Guide	Domain	Code	Objectives	Resource	Supplements/Manipulatives
2	Geometry	8.G.7	Finding missing sides and angles using trigonometry	Prentice Hall - Course 3	
1	Assessment		Summative Assessment	"	
1	Spiral Review		Cumulative Review	"	
Total Days = 4					
Topic: Application of Percents					
Pacing Guide	**Domain**	**Code**	**Objectives**	**Resource**	**Supplements/Manipulatives**
1	Expressions/Equations	8.EE.5	Relationships between percents, decimals, & fractions	Prentice Hall - Course 3	
1	Expressions/Equations	8.EE.5	Estimation with percents (EZ%)	"	
1	Expressions/Equations	8.EE.5	Solving percent problems using proportions	"	
2	Expressions/Equations	8.EE.5	Solving percent change, discount, and markup problems	"	
1	Expressions/Equations	8.EE.5	Application of percents with real - world problems	"	
1	Ratios/Proportions	7.RP.3	Determining simple and compound interest	"	
1	Statistics/Probability	7.SP.5	Review of probability and sample space	"	
2	Assessment		Summative Assessment	"	
1	Spiral Review		Cumulative Review	"	
Total Days = 11					
Topic: Powers					
Pacing Guide	**Domain**	**Code**	**Objectives**	**Resource**	**Supplements/Manipulatives**
1	Expressions/Equations	8.EE.4	Writing numbers in standard and scientific notation	Prentice Hall - Course 3	
2	Expressions/Equations	8.EE.4	Multiplying and dividing powers with the same base	"	
1	Expressions/Equations	8.EE.4	Additional power rules	"	
1	Expressions/Equations	8.F.4	Using algebraic equations to solve real-world problems	"	
1	Number Sense	EXTRA	Understanding various number systems (Binary, etc.)	"	
2	Assessment		Summative Assessment	"	
1	Spiral Review		Cumulative Review	"	
Total Days = 9					
Topic: Geometry					
Pacing Guide	**Domain**	**Code**	**Objectives**	**Resource**	**Supplements/Manipulatives**

8th Grade Math Curriculum Sequence

1	Geometry	8.G.5	Identifying pairs of angles	Prentice Hall - Course 3	
1	Geometry	8.G.5	Identifying pairs of angles with parallel lines	"	
1	Geometry	8.G.1	Relationships of congruent polygons	"	
1	Geometry	8.G.5	Using patterns to solve real world problems	"	
1	Geometry	8.G.5	Classifying polygons	"	
1	Geometry	8.G.5	Deteriming angle measures in polygons	"	
2	Geometry	8.G.5	Determing perimeters and areas of polygons/circles	"	
2	Geometry	Extra	Constructions with compass and straightedge	"	
2	Assessment		Summative Assessment	"	
1	Spiral Review		Cumulative Review	"	
Total Days = 13					
Topic: Geometry and Measurement					
Pacing Guide	**Domain**	**Code**	**Objectives**	**Resource**	**Supplements/Manipulatives**
1	Geometry	8.G.9	Classifying 3-D figures and relationships	Prentice Hall - Course 3	
1	Geometry	8.G.9	Drawing 2 dimensional views of 3-D figures	"	
1	Geometry	8.G.9	Recognizing and drawing nets of 3-D figures	"	
3	Geometry	8.G.9	Determining surface areas of 3-D figures	"	
2	Geometry	8.G.9	Determining volumes of 3-D figures	"	
1	Functions	8.F.4	Using tables and diagrams to solve real - world problems	"	
1	Geometry	8.G.4	Relationships with similar 3-D figures	"	
2	Assessment		Summative Assessment	"	
1	Spiral Review		Cumulative Review	"	
Total Days = 13					
Topic: Organizing Data					
Pacing Guide	**Domain**	**Code**	**Objectives**	**Resource**	**Supplements/Manipulatives**
1	Statistics/Probability	8.SP.1	Organizing data in a frequency table and histogram	Prentice Hall - Course 3	
1	Statistics/Probability	8.SP.1	Organizing data in a stem and leaf plot	"	
1	Statistics/Probability	8.SP.1	Organizing data in a box and whisker plot	"	
1	Functions	8.F.4	Organizing data and interpreting scatter plots	"	
1			Organizing and interpreting data in a circle graph	"	
1	Functions	8.F.4	Reading and interpreting graphs	"	
1	Functions	8.F.5	Choosing an appropriate graph for types of data	"	
1	Problem Solving	8.F.5	Using diagrams and logic to solve real-world problems	"	
2	Assessment		Summative Assessment	"	
1	Spiral Review		Cumulative Review	"	

8th Grade Math Curriculum Sequence

Total Days = 11					
Topic: Probability					
Pacing Guide	**Domain**	**Code**	**Objectives**	**Resource**	**Supplements/Manipulatives**
1	Statistics/Probability		Determining outcomes of an event	Prentice Hall - Course 3	
1	Statistics/Probability		Determining outcomes of an event with permutations	"	
1	Statistics/Probability		Determining outcomes of an event with combinations	"	
1	Statistics/Probability		Understanding experimental and theoretical probability	"	
1	Statistics/Probability		Determining probability of dependent/independent events	"	
1	Statistics/Probability		Determining biased surveys	"	
1	Statistics/Probability		Using an organized list to solve real-world problems	"	
2	Assessment		Summative Assessment	"	
1	Spiral Review		Cumulative Review	"	
Total Days = 10					
Topic: Algebraic Relationships					
Pacing Guide	**Domain**	**Code**	**Objectives**	**Resource**	**Supplements/Manipulatives**
1	Statistics/Probability	8.SP.1	Constructing frequency chart, line plots, & histograms	Prentice Hall - Course 3	
1	Statistics/Probability	8.SP.1	Writing and using functions and functional notation	"	
2	Statistics/Probability	8.SP.1	Determining graphs linear and non-linear functions	"	
1	Statistics/Probability	8.SP.2	Writing functional rules from data	"	
1	Statistics/Probability	8.SP.2	Sketching graphs to fit real-world problems	"	
1	Statistics/Probability	8.SP.3	Using equations to solve real-world problems	"	
1	Expressions/Equations	8.EE.2	Simplifying and writing polynomials	"	
3	Expressions/Equations	8.EE.2	Four operations with polynomials	"	
2	Assessment		Summative Asssessment	"	
1	Spiral Review		Cumulative Review	"	
Total Days = 14					
Pacing Guide			**Type of Instruction or Assessment**		
24			Summative Assessment		
11			Spiral Review		
141			Classroom Instruction		

4			Standardized Testing		
Total Days = 180					

Manhattan High School
Consumer Math Syllabus

Math for Business and Life
4th Edition by John Webber

Pacing Guide	Domain	CORE STANDARDS MET	Objectives	RESOURCES	SUPPLEMENTS/MANIPULATIVES
COMPLETION TIMELINE			**Whole Numbers and Decimals**	Chapter 1	
Semester 1, Quarter 1	Quantitiies	N-Q 1, 2, 3	Working with decimal numbers		
September	Quantitiies	N-Q 1, 2, 3	Reading, writing, an d rounding numbers		
			Fractions	Chapter 2	
	Real Number Systems	N-RN 1,2,3	Working with fractions and mixed numbers		
	Real Number Systems	N-RN 1,2,3	Fraction and decimal conversions		
			Solving Equations	Chapter 3	
	Seeing Structure in Expressions	A-SSE 1	Finding unknowns		
	Seeing Structure in Expressions	A-SSE 1	Writing equations for word problems		
			Percents	Chapter 4	
	Real Number Systems	N-RN 1,2,3	Percent conversions		
	Creating Equations	A-CED 1	Increase and decrease percent problems		
October			**Trade and Cash Discounts**	Chapter 5	
	Reasoning with Equations and Inequalities	A-REI 1	Calculate discounts using percentages and using the compliment method		
			Markup and Markdown	Chapter 6	
	Reasoning with Equations and Inequalities	A-REI 1	Solve problems involving percent markup and markdown		
	Reasoning with Equations and Inequalities	A-REI 1	Set up equations and solve word problems		
Semester 1, Quarter 2			**Depository Institutions**	Take Charge Curriculum	
		No Standard	Writing checks, deposit slips, and recording values in checking registry	Arizona State University	
		No Standard	Differences between commercial banks and credit unions		
		No Standard	Differences between checking and savings accounts and between debit and credit cards		
November			**Payroll**	Chapter 8	
		No Standard	Gross pay and net pay		
	Seeing Structure in Expressions	A-SSE 1	Payroll deductions for empoyees		
		No Standard	Employer and employee taxes		
			Simple and Compound Interest	Chapter 9	
	Seeing Structure in Expressions/Reasoning with Equations and Inequalities	A-SSE 1, A-REI 3	Solving for principal, rate, and time		
	Seeing Structure in Expressions/Reasoning with Equations and Inequalities	A-SSE 1, A-REI 3	Computing simple interest, compound interest, and maturity value		
December			**Future Value and Present Value**	Chapter 10 and 12	
	Reasoning with Equations and Inequalities	A-REI 1, 3	Solve future and present value problems using both equations and tables		
		No Standard	Learn Time-value-of-money-terminology		
Semester 2, Quarter 3			**Sinking Funds, Annuities, and Loan Payements**	Chapter 11 and 14	
	Reasoning with Equations and Inequalities	A-REI 1, 3	Solve sinking fund, annuity, and loan problems using tables and equations		
January			**Installment Loans and Open-End Credit**	Chapter 16	
		No Standard	Cost of installment buying		
	Reasoning with Equations and Inequalities	A-REI 1, 3	Paying off installment loans		
			Home Ownership and Mortgage Loans	Chapter 17	
	Reasoning with Equations and Inequalities	A-REI 1, 3	Paying off mortgage and increasing equity		
	Reasoning with Equations and Inequalities	A-REI 1, 3	Repayment variations and loan charges		

February			**Stocks, Bonds, and Mutual Funds**	Chapter 18	
	Reasoning with Equations and Inequalities	A-REI 1	Calculate amounts made when investing in stocks, bonds and mutual funds		
			Depreciation	Chapter 22	
March	Reasoning with Equations and Inequalities	A-REI 3	Depreciation for financial accounting		
	Reasoning with Equations and Inequalities	A-REI 3	Depreciation for federal income taxes		
Semester 2, Quarter 4			**Taxes**	Chapter 23	
	Real Number Systems	N-RN 1,2,3	Federal income taxes		
	Real Number Systems	N-RN 1,2,3	Sales tax		
	Real Number Systems	N-RN 1,2,3	Property taxes		
April			**Insurance**	Chapter 24	
		No Standard	Property Insurance		
		No Standard	Life Insurance		
			Dave Ramsey Curriculum	Foundations in Personal Finance	
		No Standard	Saving and Investing	by Dave Ramsey	
May		No Standard	Credit and Debt		
		No Standard	Financial Responsibility and Money Management		
		No Standard	Insurance/Risk Management and Income/Careers		
		* The topics without a listed mathematical standard apply to mathematical practice of modeling that give a real-world perspective on each topic.			

Manhattan High School
Algebra I Syllabus

Pacing Guide	Domain	CORE STANDARDS MET	Objectives	RESOURCES	SUPPLEMENTS/MANIPULATIVES
Semester 1, Quarter 1					
September			Math Bumper Sticker project: Create a clever math pun to display in the classroom		
			Discuss Behavior Expectations, materials needed for class, grading policy		
				2012-2013 resources: Glencoe McGraw-Hill Algebra I, copyright 2010	
				Chapter 1	
			Math Basics		
	Quantities	N-Q, 1-3	Review Numeracy Skills: perform operations with fractions, decimals, and integers		
	Quantities	N-Q, 1-3	Apply the order of operations to simplify numerical expressions		
	Seeing Structure of Expressions	A-SSE1 a-b	The Language of Algebra: translating algebraic expressions into verbal expressions		
	Seeing Structure of Expressions	A-SSE1 a-b	translating verbal expressions into algebraic expressions		
	Quantities	N-Q,1-3	Identify and apply properties of real numbers		
	Quantities	N-Q,1-3	Use order of operations to solve equations		
	Interpreting Functions	F-IF 1	Define relations and functions and display them in a table, graph, mapping, list		
	Interpreting Functions/Building Functions	F-IF1, F-BF 4c	Identify domain and range of relations		
	Interpreting Functions	F-IF1	Use the vertical line test to determine if a relation is a function		
	Seeing Structure of Expressions/Interpreting F	A-SSE1, F-IF3, F-IF 2	Interpret Euler's function notation		
	Interpreting Functions	F-IF2	Evaluate outputs of a function using function notation.		
	Interpreting Functions	F-IF1, F-IF2	Find the input of a function, given the output		
			Use logical reasoning : Identify Hypothesis and Conclusion of conditional statement		
			Draw conclusion based on a given conditional statement		
			Find counterexamples		
			Probability		
	Inferences/Conclusions	S-IC1	Probability Exploration: M&M Lab Use relative frequency to predict the chance of certain outcomes		
	Conditional Probability	S-CP	Calculate simple theoretical probability		
	Conditional Probability	S-CP	Calculate odds of an event occurring		
				Chapter 2	
October			**Linear Equations**		
	Creating Equations	A-CED 1-2	Translate verbal sentences into equations		
	Creating Equations	A-CED 1-2	Translate equations into verbal sentences		
	Reasoning with Equations and Inequalities	A-REI, 1-3	Solve linear equations using addition, subtraction, multiplication and/or division		
	Reasoning with Equations and Inequalities	A-REI, 1-3	Solve linear equations having variables on both sides of the equal sign		
	Reasoning with Equations and Inequalities	A-REI 3	Solve absolute value equations		
	Quantities	NQ1	Compare ratios		
	Reasoning with Equations and Inequalities	A-REI3	Solve proportions		
	Quantities	NQ	Find the percent of change		
	Quantities	NQ	Solve problems involving percent of change		
	Creating Equations	A-CED4	Rewrite formulas (solve an equation for one variable in terms of other variable(s).		

	Quantities	NQ, 1-3	Dimensional Analysis		
			Weighted Averages (intro to solving systems of linear equations using substitution in real word-problem contexts)		
				Chapter 3	
			Linear Functions		
October	Creating Equations	A-CED 1,2	Rewrite linear equations in standard form		
	Creating Equations	A-CED 1,2	Identify linear equations, intercepts and zeros		
	Creating Equations/Reasoning with Equations	A-CED 1,2, REI 10	Graph linear equations on the coordinate plane		
	C/Interpreting Functions	A-CED 1,2, F-IF4	Estimate solutions to an equation by graphing		
		8TH GRADE REVIEW	Use rate of change to solve problems		
	Interpreting Functions	F-IF6	Find the slope of a line either graphically or using two points on the line		
	Creating Equations	A-CED 1,2,4	Write and graph direct variation equations		
	Creating Equations/Building Functions/Linear	A-CED2,F-BF1a & d, F-LE2, 1a	Identify arithmetic sequences and find common difference in an arithmetic sequence		
	Interpreting Functions/Building Functions/Lin	F-IF4,F-BF 1a & d, FLE 1a, 2	Graph arithmetic sequences and relate sequences to linear functions		
	Creating Equations	A-CED 1,2,4	Write equations for proportional relationships (direct variation) and non-proportional		
Semester 1, Quarter 2					
				Chapter 4	
November			**Linear Functions and Relations**		
	Interpreting Functions	F-IF7, F-IF2	Write and graph linear equation in slope-intercept form, given the slope and the y-intercept		
	Interpreting Functions	F-IF7, F-IF2, F-IF5	Model real-world data with equation in slope-intercept form		
	Interpreting Functions	F-IF7, F-IF2	Write an equation of a line in slope-intercept form given the slope and one point on the line		
	Interpreting Functions	F-IF7, F-IF2, FLE2	Write an equation of a line in slope-intercept from given two points on the line		
	Interpreting Functions	F-IF7, F-IF2	Write an equation of a line in point-slope form		
	Geometric Properties and Equations	GPE5	Determine whether two lines are parallel, perpendicular, or neither, based on the lines' slopes		
	Building Functions	F-BF 1	Write an equation of a line *l* , given a line that is perpendicular to *l* .		
	Building Functions	F-BF 1	Write an equation of a line *l* , given a line that is parallel to *l* .		
	Interpreting Data	S-ID 8-9	Identify the type of correlation (positive, negative, neither) between two variables by graphing the data		
			in a scatterplot in data and find an equation for said line		
	Interpreting Data	S-ID 5,6a & c, 7-9	Use regression line (with graphing calculator) to model data		
	Interpreting Data	S-ID 8-9	Use correlation coefficient to help determine the appropriateness of using a linear model to fit data		
	Interpreting Data	S-ID7	Make predictions (interpolation and extrapolation) using regression line		
	Linear,Quadratic, Exponential Models/Interpr	F-LE5, S-ID 6a & c, S-ID 7-9, S-ID5	Supplement: Barbie Bungee regression activity		
				Chapter 5	
December			**Linear Inequalities**		
	Reasoning with Equations and Inequalities	A-REI3	Solve linear inequalities using addition and subtraction		
	Reasoning with Equations and Inequalities	A-REI3	Solve linear inequalities using multiplication and division		

	Reasoning with Equations and Inequalities	A-REI3	Solve multi-step inequalities		
	Creating Equations	A-CED1	Solve compound inequalities, both intersection and union cases		
	Creating Equations	A-CED1	Graph solutions to inequalities on a number line		
	Creating Equations	A-CED1	Solve inequalities involving absolute value		
	Creating Equations	A-CED1	Use absolute value inequalities to describe error/tolerance in various real-world situations		
	Reasoning with Equations and Inequalities	A-REI 12	Graph linear inequalities in two variables on a coordinate plane		
	Reasoning with Equations and Inequalities	A-REI 12	Solve linear inequalities by graphing		
Semester 2, Quarter 3					
				Chapter 6	
January			**Systems of Linear Equations and Inequalities**		
	Reasoning with Equations and Inequalities	REI-11,REI-6	Solve systems of linear equations graphically		
	Reasoning with Equations and Inequalities	REI-6	Solve systems of linear equations using substitution		
	Reasoning with Equations and Inequalities	REI-5, REI-6	Solve systems of linear equations using elimination		
	Reasoning with Equations and Inequalities	REI-6	Apply systems of linear equations in real-world scenarios		
	Reasoning with Equations and Inequalities	A-REI 12	Solve systems of linear inequalities graphically		
				Chapter 7	
			Polynomials		
February	Arithmatic,Polynomials,Rational Expressions	A-APR1	Multiply monomials		
	Arithmatic,Polynomials,Rational Expressions	A-APR1	Simplify expressions containing monomials		
	Arithmatic,Polynomials,Rational Expressions	A-APR1	Divide monomials		
	Arithmatic,Polynomials,Rational Expressions	A-APR1	Simplify expressions that have negative and zero exponents		
	Seeing Structure in Expressions	A-SSE1	Identify the degree and leading coefficient of a polynomial		
	Seeing Structure in Expressions	A-SSE1	Write a polynomial in descending order (standard form)		
	Arithmatic,Polynomials,Rational Expressions	A-APR1	Add and subtract polynomials		
	Arithmatic,Polynomials,Rational Expressions	A-APR1	Multiply a monomial by a polynomial using the distributive property		
	Arithmatic,Polynomials,Rational Expressions	A-APR1	Solve equations involving products of monomials and polynomials		
	Arithmatic,Polynomials,Rational Expressions	A-APR1	Multiply binomials using FOIL method		
	Arithmatic,Polynomials,Rational Expressions	A-APR1	Multiply polynomials		
	Seeing Structure in Expressions	A-SSE2	Recognize perfect square trinomials		
				Chapter 8	
March			**Factoring and Quadratic Equations**		
	Seeing Structure in Expressions	A-SSE1,2	Factor monomials		
	Seeing Structure in Expressions	A-SSE1,2	Review prime factorization		
	Seeing Structure in Expressions	A-SSE1,2	Find the greatest common factors of monomials		
	Seeing Structure in Expressions	A-SSE1,2	Factor polynomials using the distributive property		
	Seeing Structure in Expressions	A-SSE 3a	Factor trinomials in the form ax^2+bx+c		
	Arithmatic,Polynomials,Rational Expressions	A-APR3	Solve quadratic equations by factoring		
	Seeing Structure in Expressions	A-SSE2	Solve special cases (difference of squares, perfect square trinomials) of quadratic equations by factoring		
Semester 2, Quarter 4					
				Chapter 9	
April			**Quadratic Functions**		
	Linear, Quadratic, Exponential Models/Interp	F-LE3, F-IF7a, F-IF8a,F-IF9	Graph quadratic functions using symmetry, x-y tables, y-intercept		

	Reasoning with Equations and Inequalities	A-REI 4b	Solve quadratic equations graphically		
	Building Functions/Interpreting Fucntions	F-BF3, F-IF9	Explore transformations (reflections and translations only) of the parent graph of quadratics, $y = x^2$		
			using graphing calculator		
	Seeing Structure/Reasoning with Equations a	A-SSE 3b, A-REI 4a,A-REIb	Solve quadratic equations by completing the square		
	Reasoning with Equations and Inequalities	A-REIb	Solve quadratic equations by using the quadratic formula		
			Model real life scenarios (projectile motion) using quadratic equations and the graphing calculator (Gonzo lab, Angry Birds demo)		
			Exponential Functions		
	Linear, Quadratic, Exponential Models	F-LE 1c	Recognize patterns (common ratio) associated with exponential functions		
	Linear, Quadratic, Exponential Models	F-LE 3	Graph exponential functions		
	Linear, Quadratic, Exponential Models	F-LE 2	Describe domain and range of exponential functions		
	Creating Equations/Building Functions/Seeing	A-CED 2, F-BF1b, A-SSE1	Model exponential growth with an exponential function		
	Creating Equations/Building Functions	A-CED 2, F-BF 1b	Model exponential decay with an exponential function		
	Linear, Quadratic, Exponential Models	F-LE 2	Determine whether a sequence is geometric and if so, determine the common ratio		
	Building Functions	F-BF 1d	Graph geometric sequences		
	Building Functions	F-BF 1d	Create geometric sequences		
	Creating Equations/Building Functions	A-CED 2,F-BF1d	Relate geometric sequences to exponential functions		
	Linear, Quadratic, Exponential Models	F-LE 1; a-c	Determine if data has linear, quadratic, or exponential pattern by looking at common ratio and/or		
			successive differences		
				Chapter 10	
May			**Radical Functions**		
	Reasoning with Equations and Inequalities	A-REI 10	Explore characteristics of the parent graph $y = \sqrt{x}$		
	Reasoning with Equations and Inequalities	A-REI 10	Graph square root functions		
	Interpreting Functions	F-IF1	Identify the domain and range of square root functions		
	Real Number Systems	N-RN 1-2	Simplify radical expressions using the product property and quotient property of square roots		
	Real Number Systems	N-RN 1-2	Add and subtract radical expressions		
	Real Number Systems	N-RN 1-2	Multiply radical expressions		
		N-RN 1-2	Solve radical equations, including those with extraneous solutions		
			(Ch 10)		
			Geometry		
	Similarities, Right triangles, Trigonometry	G-SRT 8	Review the Pythagorean Theorem		
	Similarities, Right triangles, Trigonometry	G-SRT 8	Use Pythagorean Theorem to determine if a triangle is a right triangle		
	Similarities, Right triangles, Trigonometry	G-SRT 8	Solve missing sides of a right triangle using the Pythagorean Theorem		
	Similarities, Right triangles, Trigonometry	G-SRT 8	Find the distance between two points on a coordinate plane		
	Similarities, Right triangles, Trigonometry	G-SRT2	Determine whether two triangles are similar		
	Similarities, Right triangles, Trigonometry	G-SRT6	Find unknown measures of triangles using similarity and proportion		
	Similarities, Right triangles, Trigonometry	G-SRT 5	Shadows Lab: Apply similarity to find unknown heights of objects		
	Similarities, Right triangles, Trigonometry	G-SRT 6	Find trigonometric ratios of angles		
	Similarities, Right triangles, Trigonometry	G-SRT 8	Use trigonometry to solve right triangles		
			Additional Topics (as time allows)		
	Identifying Functions	F-IF 7d	Inverse variation		
	Identifying Functions	F-IF 7d	Rational Functions		
	Arithmatic,Polynomials,Rational Expressions	A-APR 6	Simplifying Rational Expressions		
	Arithmatic,Polynomials,Rational Expressions	A-APR 6	Multiplying & Dividing Rational Expressions		

Manhattan High School
Course: Algebra II Syllabus

Pacing Guide	Domain	CORE STANDARDS MET	Objectives	RESOURCES	SUPPLEMENTS/MANIPULATIVES
			Semester 1, Quarter 1	*Holt Algebra II* , 2007	
September			**Properties & Operations of Real Numbers**	Chapter 1	
	Real Number Systems	N-RN	Sets of Real Numbers		
	Real Number Systems	N-RN 3	Properties of Real Numbers (Commutative, Associative, Distributive)		
	Real Number Systems	N-RN 2	Square roots		
	Arithmatic with Polynomials and Rational Expressions	A-APR 1	Simplifying Algebraic Expressions		
	Real Number Systems	N-RN 1,2	Properties of Exponents		
	Interpreting Functions	FI-F1	Relations & Functions		
	Interpreting Functions	FI-F2	Function Notation		
	Congruence	G-CO2	Exploring Transformations		
	Builidng Functions	F-BF3	Introduction to Parent Functions		
October			**Linear Functions**	Chapter 2	
	Reasoning with Equations and Inequalities	A-REI3	Solving Linear Equations & Inequalities		
	R/Similariites, Right Triangles, and Trig	A-REI3, G-SRT2,G-SRT5	Proportional Reasoning		
	Interpreting Functions	F-IF7A,F-IF4,5,6	Graphing Linear Functions		
	Linear, Quadratic, Exponential Models/Interpeting Cat	F-LE2, A-CED2,G-GPE5	Writing Linear Functions		
	Creating Equations/Reasoning with Equations and Ineq	A-CED3, A-REI12	Linear Inequalities in Two Variables		
	Linear, Quadratic, Exponential Models/Interpeting Cat	F-LE2, Modeling, S-ID6,7,8,9	Curve-Fitting with Linear Models		
	Creating Equations	A-CED1	Solving Absolute-Value Equations and Inequalities		
	Building Functions/Identifying Functions	F-BF1, F-IF7	Absolute-Value Functions		
			Semester 1, Quarter 2		
November			**Linear Systems**	Chapter 3	
			Linear Systems in 2 Dimensions		
	Reasoning with Equations and Inequalities	A-REI6,A-REI10,11	Solving Systems Graphically		
	Reasoning with Equations and Inequalities	A-REI6,AREI5	Solving Systems Using Elimination and Substitution		
	Reasoning with Equations and Inequalities	A-REI2	Solving Systems of Linear Inequalities		
	Creating Equations/Reasoning with Equations and Ineq	A-CED3,A-REI12, Modeling	Linear Programming/Optimization		
			Linear Systems in 3 Dimensions		
	Creating Equations	A-CED2	Linear Equations in 3 Dimensions		
	Reasoning with Equations and Inequalities	A-REI6	Solving Linear Systems in 3 Variables (with elimination)		
December			**Matrices**	Chapter 4	
	Vector and Matrix Quantities	N-VM6	Organizing Data into Matrices		
	Vector and Matrix Quantities	N-VM7,8	Adding, Subtracting, and Multiplying Matrices by a Scalar		
	V/Quantities	N-VM9,N-Q1	Matrix Multiplication		
	Vector and Matrix Quantities	N-VM12	Transforming Geometric Figures Using Matrices		
	Reasoning with Equations and Inequalities	A-REI8,9, N-VM10	Matrix Inverses and Solving Systems Using Matrices		
			Matrix Applications		Magic of Matrices
	Reasoning with Equations and Inequalities	A-REI8,9	Encryption with Matrices		
	Vector and Matrix Quantities	N-VM6	Networkin with Matrices		
	Vector and Matrix Quantities	N-VM6	Sports Ranking with Matrices		
	Reasoning with Equations Solving Inequalities/Vector a	A-REI8,9, N-VM10	Santa Crisis: Solving Systems with Matrices		

			Quadratic Functions	Chapter 5	
	Building Functions/Interpreting Functions	F-BF3,F-IF8	Transforming Quadratic Functions, Vertex Form of a Parabola		
	Interpreting Functions	F-IF7c	Quadratics in Standard Form: Properties and Graphing		
	Reasoning with Equations, Seeing Structure in Express	A-REI4b,A-SSE3a,A-SSE2	Solving Quadratic Equations Graphically & by Factoring		
	Reasoning with Equations/ Seeing Structure in Express	A-REI4a,A-SSE3b,A-SSE1b, F-IF8	Completing the Square		
January	Complex Number Systems/Arithmatic with Polynomial	N-CN1, N-CN3,A-APR3	Complex Numbers & Roots		
	Reasoning with Equations and Inequalities	A-REIa	The Quadratic Formula		
	Complex Number Systems/Reasoning with Equations a	N-CN7,A-REI7	Solving Quadratic Inequalities Graphically & Algebraically		
	Linear, Quadratic, and Exponential Models	F-LE3	Modeling Data with Quadratic Functions		
	Complex Number Systems	N-CN2, N-CN4	Operations with Complex Numbers		
			<u>Semester 2, Quarter 3</u>		
February			**Polynomial Functions**	Chapter 6	
	Seeing Structure in Expressions/Arithmatic with Plynor	A-SSE1a,b; A-APR1	Polynomials		
	Arithmatic with Polynomials and Rational Expressions	A-APR1, A-APR5	Multiplying Polynomials		
	Arithmatic with Polynomials and Rational Expressions	A-APR3	Dividing Polynomials		
	Arithmatic with Polynomials and Rational Expressions	A-APR3	Factoring Polynomials		
	Arithmatic with Polynomials and Rational Expressions	A-APR3	Finding Real Roots of Polynomial Equations		
	Complex Number Systems/Arithmatic with Polynomial	N-CN9,A-APR2, N-CN8	Fundamental Theorem of Algebra		
	Interpreting Functions	F-IF4,F-IF5,F-IF7c	Investigating Graphs of Polynomial Functions		
	Building Functions	F-BF3	Transforming Polynomial Functions		
	Interpreting Functions	F-IF9	Mathematical Modeling with Polynomial Functions		
March			**Exponential and Logarithmic Functions**	Chapter 7	
	Interpreting Functions/Linear, Quadratic, and Exponer	F-IF7e, F-IF8b,F-LE1a-c	Exponential Functions: Growth & Decay		
	Creating Equations/Reasoning with Equations and Ineq	A-CED, F-IF5,F-BF4a,c,d	Inverses of Relations & Functions		
	Interpreting Functions/Building Functions	F-IF7e,F-BF5	Logarithmic Functions		
	Linear, Quadratic, and Exponential Models	F-LE4	Properties of Logarithms		
	Building Functions/Linear, Quadratic, and Exponential	F-BF5,F-LE4	Exponential and Logarithmic Equations & Inequalities		
	Building Functions/Linear, Quadratic, and Exponential	F-IF8b,F-LE4	The Natural Base, e		
	Building Functions	F-BF3	Transforming Exponential and Logarithmic Functions		
	Building Functions/Linear, Quadratic, and Exponential	F-IF8b,F-LE5	Mathematical Modeling with Exponential and Logarithmic Functions		
April			**Rational and Radical Functions**	Chapter 8	
	Interpreting Functions	F-IF4,F-IF7a,d	Variation Functions (inverse, direct, joint, combined)		
	Arithmatic with Polynomials and Rational Expressions	A-APR7	Multiplying and Dividing Rational Expressions		
	Arithmatic with Polynomials and Rational Expressions	A_APR7	Adding & Subtracting Rational Expressions		
	Arithmatic with Polynomials and Rational Expressions	A-APR6,A-APR7	Rational Functions		
	Reasoning with Equations and Inequalities	A-REI1,A-REI2	Solving Rational Equations & Inequalities		
	Interpreting Functions	F-IF7d	Radical Expressions and Rational Functions		
	Building Functions/Interpreting Functions	F-BF1,F-IF7a,b	Radical Functions		
	Creating Equations	A-CED4	Solving Radical Functions		
	Reasoning with Equations and Inequalities	A-REI1,A-REI2	Solving Radical Equations and Inequalities		

May			**Properties and Attributes of Functions**	Chapter 9	
	Interpreting Functions	F-IF4,F-IF7a-e	Multiple Representations of Functions		
	Interpreting Functions	F-IF7b	Piecewise Functions		
	Building Functions	F-BF3	Transforming Functions		
	Building Functions	F-BF1c,F-BF3	Operations with Functions		
	Building Functions	F-BF4b,F-BF5	Functions and Their Inverses		
	Linear, Quadratic, and Exponential Models/Quantities	F-LE5, NQ2,modeling	Modeling Real-World Data		
			Conic Sections	Chapter 10	
	Expressing Geometric Properties with Equations	G-GPE1	Circles		
	Expressing Geometric Properties with Equations	G-GPE3	Ellipses		
	Expressing Geometric Properties with Equations	G-GPE3	Hyperbolas		
	Expressing Geometric Properties with Equations	G-GPE2	Parabolas		
	Expressing Geometric Properties with Equations	G-GPE1,G-GPE2, G-GPE3	Identifying Conic Sections		
			Trigonometric Functions *as time allows*	Chapter 13	
	Similarities, Right Triangles, Trigonometry	G-SRT6,G-SRT8	Right-Angle Trigonometry		
	Trigonometric Functions	F-TF1	Angles of Rotation		
	Trigonometric Functions	F-TF1,F-TF2	The Unit Circle		
	Trigonometric Functions	F-TF6,	Inverse of Trig Functions		
	Similarities, Right Triangles, Trigonometry	G-SRT10, G-SRT11	Law of Sines		
	Similarities, Right Triangles, Trigonometry	G-SRT10, G-SRT11	Law of Cosines		

* current Resource: *Holt Algebra II* , 2007

Manhattan High School
Geometry Syllabus

Pacing Guide	Domain	CORE STANDARDS MET	Objectives	RESOURCES	SUPPLEMENTS/MANIPULATIVES
Semester 1, Quarter 1					
September			**Building Blocks of Geometry**		
	Congruence	G-Co 1	Learn terminology and notation of points, segments, lines, rays, planes, angles, and collinear points		
	Congruence	G-Co 1	Learn the idea of congruence of line segments and angles		
	Congruence	G-Co 1	Learn to show the measurement of angles and segments on figures		
	Congruence	G-Co 12	Use tools of measurement including a protractor and ruler		
	Congruence	G-Co 3	Define and classify polygons and write and identify polygons		
	Congruence	G-Co 3	Define and classify special triangles and quadrilaterals and their related parts		
	Congruence	G-C 1	Define a circle and related figures and the parts of a circle		
			Reasoning in Geometry		
	Congruence	G- Co	Use inductive reasoning to find the next term in a number or picture pattern		
	Congruence	G- Co	Introduce and familiarize students with the deductive reasoning process		
	Congruence	G- Co	Use deductive and inductive reasoning to generalize number patterns and find the nth term		
	Congruence	G-C 9	Identify linear and vertical angle pairs and their special relationships		
	Congruence	G-C 9	Identify special relationships of angles formed by a transversal crossing 2 parallel lines		
October			**Using Tools of Geometry**		
	Congruence	G-Co 12	Introduce rules of geometric construction with a straightedge and a compass		
	Congruence	G-Co 12	Use construction to duplicate a segment, an angle and a polygon		
	Congruence	G-Co 12	Use construction to make perpendicular bisectors		
	Congruence	G-Co 12	Construct a perpendicular between a line and a point not on a line (shortest distance)		
	Congruence	G-Co 12	Construct angle bisector		
	Congruence	G-Co 12	Construct Parallel lines		
	Congruence	G-Co 13	Construct Triangles and Different Polynomials		
	Circles	G-C 3	Construct points of concurrency (Incenter, Circumcenter, Incenter, Centroid)		
Semester 1, Quarter 2			**Proving Triangle Properties**		
	Congruence	G-Co 9, G-Co 10	Use sum of interior angles of triangles		
November	Congruence	G-Co 9, G-Co 10	Use isosceles triangle conjecture (base angles are congruent)		
	Congruence	G-Co 9, G-Co 10	Triangle inequality Conjecture and Side/angle Inequality Conjecture		
	Congruence	G-Co 9, G-Co 8	Use SSS, SSA, SAS, ASA triangle congruence relationships		
	Congruence	G-Co 7, G-Co 11, G-Srt 5	Find corresponding parts of congruent triangles		
	Congruence	G-Co 9, G-Co 10	Create Paragraph and Flowchart Proofs to prove triangle congruence relationships		
	Congruence	G-Co 9, G-Co 10	Prove isosceles triangle conjecture relationships		
	Congruence				
December			**Discovering and Proving Polygon Properties**		
	Congruence	G-Co 11	Discover the sum of the angles measures in a polygon		
	Congruence	G-Co 11	Discover the sum of the measures of the exterior angles of a polygon		
	Congruence/Similarity, Right Triang	G-Co 11, G-Srt 5	Discover properties of kites and trapezoids		
	Congruence/Similarity, Right Triang	G-Co 11, G-Srt 5	Discover properties of midsegments in triangles and trapezoids		
	Congruence/Similarity, Right Triang	G-Co 11, G-Srt 5	Discover properties of parallelograms, rectangles, rhombuses, and squares		
	Congruence/Similarity, Right Triang	G-Co 11, G-Srt 5	Prove properties about parallelograms using flowchart proofs		
			Discovering and Proving Circle Properties		
	Circles	G-C 2	Discover Properties of a chord		
Semester 2, Quarter 3	Circles	G-C 2, G-C 4	Discover properties and applications of tangents		
January	Circles	G-C 2	Discover relationships between an inscribed angle of a circle and its intercepted arc		
	Circles	G-C 2	Prove circle conjectures		
	Circles	G-C 2	Discover the the relationship between pi and the circumference of a circle		
	Circles	G-C 2	Discover the formula for finding the length of an arc of a circle		
			Transformations and Symmetry		
February	Congruence	G-Co 2, G-Co 4, G-Co 5, G-Co 6	Identify and create translations, rotations, and reflections of figures in a plane		
	Congruence	G-Co	Classify and identify tesselations		
			Area		
	Geometric Measurement and Dime	G-Gmd 1	Find areas of rectangles, parallelograms, triangles, trapezoids, circles, and kites.		

	Geometric Measurement and Dime	G-Gmd 1	Practice measuring, estimation, and approximation		
	Geometric Measurement and Dime	G-Gmd 1	Derive the formula for area of a regular polygon		
	Geometric Measurement and Dime	G-Gmd	Find formulas for the areas of segments, sectors, and annulses		
	Geometric Measurement and Dime	G- Gmd 2, G-Gmd 3	Calculate surface area and visualize in three dimensions		
March			**The Pythagorean Theorem**		
	Similarity, Right Triangles, Trigonon	G-Srt 4, G-Srt 8	Understand the pythagorean theorem and its converse		
	Similarity, Right Triangles, Trigonon	G-Srt 4, G-Srt 8	Simplify square roots and discover special right triangles		
	Similarity, Right Triangles, Trigonon	G-Srt 4	Derive equation of a circle		
			Volume		
	Geometric Measurement and Dime	G-Gmd 3, G-Gmd 1	Define polyhedrons, prisms, pyramids, spheres, cylinders, and cones		
	Geometric Measurement and Dime	G-Gmd 3	Discover volume formulas for each three dimensional shapes		
	Geometric Measurement and Dime	G-Gmd 3	Apply volume formulas to find displacement and density		
	Geometric Measurement and Dime	G-Gmd 3, G-Gmd 2	Find the surface area of a sphere		
Semester 2, Quarter 4			**Similarity**		
April	Similarity, Right Triangles, Trigonon	G-Srt 2, G-Srt 3	Define similar polygons and solids and use them to solve problems		
	Similarity, Right Triangles, Trigonon	G-Srt 2, G-Srt 3	Discover relationships between corresponding parts of similar polygons		
	Similarity, Right Triangles, Trigonon	G-Srt 2, G-Srt 3	Discover relationships between corresponding areas of similar polygons		
	Similarity, Right Triangles, Trigonon	G-Srt 2, G-Gmd 3	Discover relationships between corresponding volumes of similar solids		
	Similarity, Right Triangles, Trigonon	G-Srt 1a,b	Discover proportional relationships using parallel lines		
			Trigonometry		
May	Similarity, Right Triangles, Trigonon	G-Srt 6, G-Srt 7	Develop sine, cosine, and tangent ratios		
	Similarity, Right Triangles, Trigonon	G-Srt 6, G-Srt 7	Use trigonometry to solve applied problems		
	Similarity, Right Triangles, Trigonon	G-Srt 10, G-Srt 11	Discover and apply the Law of Sines and the Law of Cosines		
			Geometry as a Mathematical System		
	Congruence	G-Co 9	Use the deductive system of reasoning to support statements with definitions, properties, and postulates		
	Congruence	G-Co 9, G-Co 10, G-Co 11	State conjectures and conditional statements		
	Congruence	G-Co 9	Prove angle bisector conjecture		
	Congruence	G-Co 11	Prove parallelogram and quadrilateral conjectures		
	Congruence	G-Co 9, G-Co 10, G-Co 11	Write indirect proofs in paragraph form		
	Congruence/Circles	G-C 1, G-Co	Prove circle conjectures		
	Similarity, Right Triangles, Trigonon	G-Srt 4, G-Srt5, G-Srt 10	Prove conjectures on the properties of similarity		

Manhattan High School
Advance Math Syllabus

Pacing Guide	Domain	CORE STANDARDS MET	Objectives	RESOURCES	SUPPLEMENTS/MANIPULATIVES
Semester 1, Quarter 1					
September			**Functions and Graphs**		
	Interpret Functions	F-IF 2	Solve and model equations		
	Interpret Functions	F-IF 1, 3	Understand functions and their properties including domain and range, symmetry, and asymptotes		
	Interpret Functions	F-IF 4, 7	Analyze the twelve basic functions		
	Building Functions	F-BF 3, 4	Combine and compose functions		
	Building Functions	F-BF 4	Understand inverse relations and inverse functions		
	Building Functions	F-IF 4, 5	Transform functions through translations, reflections, stretches and shrinks		
	Linear, Quadratic, and Exponential Models	F-LE 1	Model with functions		
October			**Polynomial, Power, and Rational Functions**		
	Building Functions/Linear, Quadratic, and Expo	F-BF 1, F-LE 1	Model with linear and quadratic functions		
	Interpret Functions	F-IF 7	Model with power functions		
	Interpret Functions	F-IF 4,5,7,8	Model with polynomial functions of higher degree		
	Interpret Functions	F-IF 4,5,7,8	Find real zeros of polynomial functions		
	Complex Numbering Systems	N-CN 1-3	Find complex zeros of polynomial functions and understand the fundamental theorem of algebra		
	Reasoning with Equations and Inequalities	A-REI 10	Graph rational functions		
	Reasoning with Equations and Inequalities	A-REI 3,4	Solve equations in one variable		
	Reasoning with Equations and Inequalities	A-REI 5	Solve inequalities in one variable		
Semester 1, Quarter 2					
			Trigonometric Functions		
November	Trigonometric Functions	F-TF 1, 2	Define angles and their measures		
	Trigonometric Functions	F-TF 1, 2, 3	Define the six trigonometric functions for acute angles		
	Trigonometric Functions	F-TF 2, 4	Understand circular functions and define the unit circle		
	Trigonometric Functions	F-TF 1, 2	Graph sine and cosine and define sinusoid functions		
	Trigonometric Functions	F-TF 1-4	Graph tangent, cotangent, secant, and cosecant functions		
December	Trigonometric Functions	F-TF 1-4	Graph composite trigonometric functions		
	Trigonometric Functions	F-TF 6, 7	Understand inverse trionometric functions		
	Trigonometric Functions/Interpret Functions	F-TF 1-7, F-IF 7	Solve problems with trigonometry		
			Analytic Trigonometry		
	Trigonometric Functions	F-TF 8-9	Define and Prove Fundamental trigonometric identities		
	Trigonometric Functions	F-TF 8-9	Define and Prove Sum and Difference Identities		
Semester 2, Quarter 3	Trigonometric Functions	F-TF 8-9	Define and Prove Multiple Angle Identities		
January	Similarity, Right Triangles, Trigonometry	G-SRT 10	Derive and Identitfy The Law of Sines		
	Similarity, Right Triangles, Trigonometry	G-SRT 11	Derive and Identitfy The Law of Cosines		
			Vectors		
February	Vector and Matrix Quantities	N-VM 1-4	Understand vectors in a plane, vector operations, unit vectors, direction angles, and applications		
	Vector and Matrix Quantities	N-VM 1-5	Perform the dot product of vectors to find the angle between vectors and vector projections		
	Vector and Matrix Quantities	N-VM 1-5	Use the dot product to find the work done by vector quantities and application problems		
			Exponential, Logarithmic, and Logistic Functions		
March	Building Functions	F-BF-5	Identify and apply Exponential Functions		
	Building Functions	F-BF-5	Identify and apply Logarithmic and logistic Functions		
	Linear, Quanratic, and Exponential Models	F-LE 1-4	Model using exponential, logistic, and logarithmic functions		
	Linear, Quanratic, and Exponential Models	F-LE 1-4	Solve equations using exponential, logistic, and logarithmic functions		
	Linear, Quanratic, and Exponential Models	F-LE 1-5	Apply exponential functions to the mathematics of finance		
Semester 2, Quarter 4					
April			**Discrete Mathematics**		
	Conditional Probability and Rules of Probability	S-CP 8, 9	Identify and apply basic combinations		
	Arithmatic with, Polynomials, and Rational Exp	A-APR 5	Derive and apply the binomial theorem		
	Conditional Probability and Rules of Probability	S-CP 1-3	Find probabilities using sample spaces		
	Interpreting Categorical and Quantitative Data	S-ID 1-3	Display statistical data through graphical and algebraic means		
May			**Analytic Geometry**		
	Expressing Geometric Properties with Equation	G-GPE 1-3	Identify conic sections, parabolas, ellipses, and hyperbolas graphically and algebraically		

	Expressing Geometric Properties with Equation	G-GPE 1-3	Identify the properties of conic sections, parabolas, ellipses, and hyperbols		
	Expressing Geometric Properties with Equation	G-GPE 1-3	Translate conic sections, parabolas, ellipses, and hyperbolas		

Manhattan High School
Course: Probability & Statistics Syllabus

Pacing Guide	Domains	CORE STANDARDS MET	Objectives	RESOURCES	SUPPLEMENTS/MANIPULATIVES
Semester 1, Qt1				Brase & Brase. Understandable Statistics: Concepts & Methods, 10th ed. Brooks/Cole Cengage Learning, 2012	
			Introduction to Statistics		
September			Define Statistics; compare qualitative vs. quantitative variables;	Chapter 1: Getting St	Icebreaker activity: data collection
	Making Inferences and Justifying Conclusions	S-IC 1	parameters vs statistics; identify levels of measurement		
	Making Inferences and Justifying Conclusions	S-IC 1	Random sampling techniques		
	Making Inferences and Justifying Conclusions	S-IC 2	Simulating a Random Process		
			Introduction to Experimental Design		Chips Ahoy Activity: experimental design
	Making Inferences and Justifying Conclusions	S-IC 3	Basic Guidelines for Planning a Statistical Study		
	Making Inferences and Justifying Conclusions	S-IC 3	Compare census vs. sample		
	Making Inferences and Justifying Conclusions	S-IC 3, S-IC 5	Describe simulations, observational studies, and experiments		Discrimination or Not? Simulation activity. Source: NCTM
	Making Inferences and Justifying Conclusions	S-IC 3	Discover potential pitfalls of surveys		
			Displays of Data		
	Interpreting Categorical and Quantitative Data	S-ID 3	Frequency Distributions: Identify basic distribution shapes such as uniform, symmetric, skewed, bimodal	Chapter 2: Organizing Data	
	Interpreting Categorical and Quantitative Data	S-ID 1	Histograms and Relative Frequency Histograms		
	Interpreting Categorical and Quantitative Data	S-ID 1	Bar Graphs		
	Interpreting Categorical and Quantitative Data	S-ID 1	Circle Graphs		
	Interpreting Categorical and Quantitative Data	S-ID 1	Time-Series Graphs		
	Interpreting Categorical and Quantitative Data	S-ID 1	Stem-and-Leaf Displays		
			Averages and Variation		
	Interpreting Categorical and Quantitative Data	S-ID 2, S-ID 3	Measures of Center: mean, median, mode	Chapter 3: Averages	Game of Greed
	Interpreting Categorical and Quantitative Data	S-ID 2, S-ID 3	Trimmed Mean		
	Interpreting Categorical and Quantitative Data	S-ID 2, S-ID 3	Weighted Average		
October	Interpreting Categorical and Quantitative Data	S-ID 2, S-ID 3	Measures of Spread: range, variance, standard deviation		
	Interpreting Categorical and Quantitative Data	S-ID 3	Coefficient of Variation		
	Interpreting Categorical and Quantitative Data	S-ID 3	Chebyshev's Theorem		
	Interpreting Categorical and Quantitative Data	S-ID 2	Percentiles		
	Interpreting Categorical and Quantitative Data	S-ID 2	Box-and-Whisker Plots		
	Interpreting Categorical and Quantitative Data	S-ID 3	Outliers and Their impact on data		
			Elementary Probability Theory		
	Conditional Probability and Rules of Probability	S-CP 1-4	Assigning Probabilities	Chapter 4: Elementary Probability Theory	
	Conditional Probability and Rules of Probability	S-CP 1, 2, 3, & 4	Law of Large Numbers		
	Conditional Probability and Rules of Probability	S-CP6, S-CP7, S-CP8	Basic Probability Rules		
	Using Probability to Make Decisions	S-MD 7	The Relationship Between Probability & Statistics		
	Conditional Probability and Rules of Probability	S-CP 4,5,6,7,8, & 9	Calculating Probabilities of Compound Events		Testing Positive for a Disease: Activity; Source: Advanced Mathematical Concepts
	Conditional Probability and Rules of Probability		Counting Techniques		
	Conditional Probability and Rules of Probability	S-CP6, S-CP7, S-CP8	Tree Diagrams		

	Conditional Probability and Rules of Probability	S-CP8	Multiplication Counting Principle		
	Conditional Probability and Rules of Probability	S-CP9	Permutations		
	Conditional Probability and Rules of Probability	S-CP9	Combinations		
Semester 1, Quarter 2					
November			**Binomial Probability Distribution, Geometric Distribution, Poisson Distribution**	Chapter 5: The Binomial Probability Distribution & Related Topics	
	Using Probability to Make Decisions	S-MD 1, 2, 3, & 4	Introduction to Random Variables and Probability Distributions		
			Components of a Binomial Experiment		
	Using Probability to Make Decisions	S-MD 1, 2, 3, & 4	Binomial Distribution		m&m's Anyone? Binomial Distribution Activity
	Arithmatic with Polynomials and Rational Expres	A-APR5	Review of Pascal's Triangle, as applied to Binomial Expansion		
	Arithmatic with Polynomials and Rational Expres	A-APR5	Binomial Theorem		
	Using Probability to Make Decisions	S-MD 1, 2, 3, & 4	Graphing Binomial Distributions		
	Using Probability to Make Decisions	S-MD 1, 2, 3, & 4	Geometric Distribution		
	Using Probability to Make Decisions	S-MD 1, 2, 3, & 4	Poisson Distribution		
			Normal Curves and Sampling Distributions	Chapter 6: Normal Curves & Sampling Distribution	
	Interpreting Categorical and Quantitative Data	S-ID4	Graphs of Normal Probability Distributions and Their Properties		
	Interpreting Categorical and Quantitative Data	S-ID4	Applying the Empirical Rule (68%-95%-99.7% Rule)		
	Interpreting Categorical and Quantitative Data	S-ID4	Creating and Interpreting Control Charts		
	Interpreting Categorical and Quantitative Data	S-ID4, S-MD 7	Standard Units of Standard Normal Curve (z-score)		
December	Interpreting Categorical and Quantitative Data	S-ID4, S-MD 7	Areas Under the Standard Normal Distribution		
	Interpreting Categorical and Quantitative Data	S-ID4, S-MD 7	Areas Under any Normal Curve		
	Interpreting Categorical and Quantitative Data	S-ID4, S-MD 7	Sampling Distributions		The German Tank Problem
	Interpreting Categorical and Quantitative Data	S-ID 4	Central Limit Theorem		Sampling Distribution of Pennies: Discovering the Central Limit Theorem
	Interpreting Categorical and Quantitative Data	S-ID 4	Using a Normal Approximation for the Binomial Distribution and p-hat Distribution		
January			**Estimation**	Chapter 7: Estimation	
	Making Inferences and Justifying Conclusions/Us	S-IC 1, S-MD 2, 3, 4, 5, 6, 8	Estimating μ When σ is Known		
	Making Inferences and Justifying Conclusions/Us	S-IC 1, S-MD 2, 3, 4, 5, 6, 8	Estimating μ When σ is Unknown		
	Making Inferences and Justifying Conclusions/Us	S-IC 1, S-MD 2, 3, 4, 5, 6, 8	Estimating p in the Binomial Distribution		
	Making Inferences and Justifying Conclusions/Us	S-IC 1, S-MD 2, 3, 4, 5, 6, 8	Estimating the difference of 2 population means		
	Making Inferences and Justifying Conclusions/Us	S-IC 1, S-MD 2, 3, 4, 5, 6, 8	Estimating the difference of 2 population proportions		
			REVIEW SEMESTER 1 Topics		
Semester 2, Quarter 3					
February			**Hypothesis Testing**	Chapter 8: Hypothesis Testing	
			Introduction to Statistical Tests		Coke vs. Pepsi: Intro to Significance Tests. Source: AP College Board
	Using Probability to Make Decisions	S-MD 5, 6, & 7	Testing the Mean, μ		
	Using Probability to Make Decisions	S-MD 5, 6, & 7	Testing a Proportion, p		

	Using Probability to Make Decisions	S-MD 5, 6, & 7	Testing Which Involves Paired Differences: Dependent Samples		Right-Hand/Left-Hand: Matched Pair Design Activity
	Using Probability to Make Decisions	S-MD 5, 6, & 7	Testing μ1-μ2 and p1-p2: Independent Samples		
			Correlation and Regression	Chapter 9: Correlation & Regression	
	Interpreting Categorical and Quantitative Data/L	S-ID 9, F-LE 1B, F-LE 5, F-I	Review of Scatter Plots and Linear Correlation		CSI: The Case of the Missing Cookies
	Interpreting Categorical and Quantitative Data/L	S-ID 5, 6a-c, & 7, F-LE 5, F-	Linear Regression Models and the Coefficient of Determination (R^2)		
	Interpreting Categorical and Quantitative Data	S-ID 6B	Residual Plots		
			Inferences for Correlation and Regression		
	Interpreting Categorical and Quantitative Data	S-ID 8	Hypothesis-Testing the correlation coefficient		
			Computing Standard Error		
			Finding a Confidence Interval for the Predicted y-value		
			Hypothesis-Testing the slope of regression line		
			Finding a Confidence Interval for the Predicted Slope		
March			Multiple Regression		Modeling Activity on Excel
	Building Functions	F-BF 1 a-b	Performing Transformations to Achieve Linearity		Engine Size Vs. Mileage Activity
			Chi-Square and F Distributions	Chapter 10: Chi-Square and F Distributions	
			Chi-Square: Tests of Independence & Homogeneity		
			Goodness of Fit		"The Candy Man Can" Activity: Goodness of Fit
			Testing and Estimating a Single Variance or standard Deviation		
			F Distribution: Testing 2 Variances		
			One-Way ANOVA: Comparing Several Sample Means		
			Introduction to Two-Way ANOVA		
Semester 2, Quarter 4					
	Making Inferences and Justifying Conclusions	S-IC 6, S-IC 4	**Project**		Text-Messaging: Communicating in the 21st Century
April			**Course Review**		
May			**Optional Topics (Time-Allowing) : Non-Parametric Statistics**	Chapter 11: Non-Parametric Statistics	
			Signed Test for Matched Pairs		
			Rank-Sum Test		
			Spearmean Rank Correlation		
			Runs Test for Randomness		

Manhattan High School

Course: AP Calculus (AB Course) Syllabus

	CORE STANDARDS MET	RESOURCES	SUPPLEMENTS/MANIPULATIVES
Review of Pre-Calculus Topics		Larson and Edwards. *Calculus of a Single Variable* . 9th ed. Belmont: Brooks/Cole Cengage Learning, 2010.	
Graphs & Models	F-LE 1-5	Chapter P	
Linear Models and Rates of Change	F-LE 1, F-LE2		
Review of Graphing Calculator Uses: Question-Answer Session			
Functions & Their Graphs	F-BF 1-5		
Fitting Models to Data	F-LE 1-5		
Problem-Solving			
Trigonometry Review	F-TF 1-9		
Limits			
A Preview of Calculus		Chapter 1	
Finding Limits Graphically and Numerically			
Evaluating Limits Analytically			
Continuity and One-Sided Limits			
Problem-Solving			
Infinite Limits			
The Derivative			
Activity: Introduction to Instantaneous Rate of Change			20-Minute Ride Activity
The Derivative and the Tangent Line Problem		Chapter 2	
Basic Differentiation Rules and Rates of Change			
The Product Rule & The Quotient Rule			
The Chain Rule			
Implicit Differentiation			
Related Rates			
Applications of Derivatives			
Extrema on an Interval		Chapter 3	
Rolle's Theorem and the Mean Value Theorem			
Increasing & Decreasing Functions and The First Derivative Test			
Concavity and the Second Derivative Test			
Limits at Infinity			
Curve-Sketching			
Optimization			
Newton's Method for Approximating Zeros			
Differentials			
Integration			
Antiderivatives and Indefinite Integration		Chapter 4	
Area; Upper & Lower Sums			
Riemann Sums & Definite Integrals			
Fundamental Theorem of Calculus			
Integration by Substitution			
Simpson's Rule & Trapezoid Rule			
Logarithms & Transcendental Functions			
The Natural Log Function		Chapter 5	
The Natural Log Function: Integration			

Inverse Functions			
Exponential Functions: Differentiation & Integration			
Exponential Functions with Other Bases			
Inverse Trig Functions: Differentiation			
Inverse Trig Functions: Integration			
Other Integration Topics			
Slope Fields			
Differential Equations: Growth & Decay		Chapter 6	
Separation of Variables			
Review Themes			
Theme 2: Limits of Functions and Unbounded Behavior			
Theme 3: The Derivative at a Point, and the Derivative of a Function			
Theme 4:Graphical Relationships Between 1^{st} & 2^{nd} Derivatives			
Theme 5: The Definite Integral as Total Change			
Applications of Integration			
Area of a Region Between Two Curves		Chapter 7	
Volume: The Disk Method (including washer method)			
The Shell Method			
Arc Length and Surfaces of Revolution			
Work			
Moments, Centers of Mass, & Centroids (Time Permitting)			
Review of Integration			
Basic Integration Rules		Chapter 8	
Integration by Parts			
Mixed Review: Calculus Games; Calculus Applications			

NOTE: AP course does not align with Core Standards due to post high school alignment