	SEVENTH GRADE MATHEMATICS					
Chapte 1	er Lessons 5	Chapter Content: Integers	Sta	main/ Common Core State ndards	Suggested days for topic: 15 5 activities, 5 lessons, Chapter	
				e Number System/7.NS.1a-d, S.2a-d, 7.NS.3	Opener, Quiz, Review, Test	
	Lessons: Ess	ential Questions	Reso	ources, Materials, & Games	Assessments	
	0	Absolute Value: How can	Resources	doog Chu dout Tout	Summative	
		ers to represent the he speed of an object?	Big IcBig Ic	deas Student Text deas Record & Practice Journal deas Resources by Chapter and ormance Tasks	What You Learned Before	
	Adding Intege Is the sum of t	<i>rs</i> : two integers positive,		ne account	Chapter Test	
		ero? How can you tell?	Materials & M	•	Quizzes	
		<i>tegers</i> : How are adding subtracting integers	 Hand Index Paper Penci 		Standards Assessment	
	-	<i>tegers</i> : t of two integers tive, or zero? How can	 Two : Differentiation Skills 	, String 3-inch Strips of Different Colored Paper <i>n Opportunities</i> 5 Review and Basic Skills Handbook on Tutorials (online)	<i>Formative</i> Discovery Activity Observation and "What's Your Answer?"	
		<i>ers</i> : t of two integers tive, or zero? How can	IntenDiffer	isive Intervention Activities (online) rentiating the Lesson (online) chment and Extension	Responses Guided Practice Observation	
	you tell?			rces Imic Classroom (technology) e Closet	Lesson Summary Responses Homework	

			Check It Out: Lesson Tutorials at	
			www.bigideasmath.com	
			SEVENTH GRADE MATHEMATICS	
Chapter	Lessons	Chapter Content:	Domain/ Common Core State	Suggested days for topic:15
1	5	Integers	Standards	5 activities, 5 lessons, Chapter
			The Number System/7.NS.1a-d,	Opener, Quiz, Review, Test
			7.NS.2a-d, 7.NS.3	
	Lessons:	Objectives	Key Vocabulary	Additional Online Resources

Medford Lakes School District Math Curriculum Guide - Grade 7

1	Integers and A	<i>bsolute Value</i> : Students			
	-	absolute value of a	integer	-	The Giant Cookie Dilemma, The
		ents will find absolute	0	te value	Cost of Being Late and Using an
	values of num		opposi		Elevator to Evaluate Signed
	values of fiulin	Ders.		ve inverse	Number Expressions at:
2	Adding Integer	es. Studente will add	adultiv	emverse	-
		rs: Students will add			http://illuminations.nctm.org/
		out the use of a visual or			
		el. Students will show			Cereal at:
		f a number and its			http://www.insidemathematic
	opposite is zer	ю.			s.org/performance-
	_				<u>assessment-tasks</u>
		tegers: Students will			
		ers without the use of a			Online math skill practice at:
	visual or conci	rete model.			https://www.ixl.com/standard
					<u>s/new-jersey/math/grade-7</u>
4.	Multiplying Int	tegers: Students will			
	find products	of integers with the			
	same sign and	the products of			A library of interactive, web-
	integers with o	lifferent signs.			based virtual manipulatives at:
	-	_			http://nlvm.usu.edu/en/nav/v
5.	Dividing Intege	ers: Students will find			library.html
		tegers with the same			
	-	uotients of integers			
	with different	0			
		8			
			SEVEN	FH GRADE MATHEMATICS	
Chapte	er Lessons	Chapter Content:		Domain/ Common Core State	Suggested days for topic:12
2	4	Rational Numbers		Standards	

	Number System 7.NS.1a-d, 7.NS.2a-d, 7.NS.3	4 activities, 4 lessons, Chapter Opener, Quiz, Review, Test
Lessons: Essential Questions	Resources, Materials, & Games	Assessments
1. Rational Numbers: How can you use a number line to order rational numbers?	 Resources Big Ideas Student Text Big Ideas Record & Practice Journal Big Ideas Resources by Chapter and 	Summative What You Learned Before
 Adding Rational Numbers: How can you use what you know about adding integers to add rational 	Performance Tasks Online Account Materials & Manipulatives	Chapter Test
numbers?	Index CardsMarkers	Quizzes
3. Subtracting Rational Numbers: How can you use what you know about subtracting integers to subtract rational numbers?	 Masking Tape Pieces of Paper Glass Bowl Questions from Chapter Toy Boat 	Standards Assessment
Subtract rational numbers.		Formative
 Multiplying and Dividing Rational Numbers: Why is the product of two negative rational numbers positive? 	 Differentiation Opportunities Skills Review and Basic Skills Handbook Lesson Tutorials (online) Intensive Intervention Activities (online) Differentiating the Lesson (online) Enrichment and Extension 	Discovery Activity Observation and "What's Your Answer?" Responses
	Online Resources Dynamic Classroom (technology) 	Guided Practice Observation
	 Game Closet Check It Out: Lesson Tutorials at www.bigideasmath.com 	Lesson Summary Responses Homework

			SEVEN	TH GRADE MATHEMATICS	
Chapter 2	Lessons 4	Chapter Content: Rational Numbers		Domain/ Common Core State Standards Number System 7.NS.1a-d, 7.NS.2a-d, 7.NS.3	Suggested days for topic: 12 4 activities, 4 lessons, Chapter Opener, Quiz, Review, Test
	Lessons:	Objectives		Key Vocabulary	Additional Online Resources
ur an St nu as nu <i>2. Ac</i> St <i>3. Su</i> St nu <i>4. M</i>	<i>utional Num</i> aderstand the understand the understand will underts will fractions ar unders. <i>Iding Ration</i> udents will underts will unders.	<i>bers</i> : Students will aat a rational number is ided by an integer. convert rational ecimals, write decimals nd order rational <i>al Numbers</i> : add rational numbers. <i>ational Numbers</i> : subtract rational <i>ad Dividing Rational</i> dents will multiply and	termin	al number lating decimal ing decimal	The Giant Cookie Dilemma, The Cost of Being Late and Using an Elevator to Evaluate Signed Number Expressions at: http://illuminations.nctm.org/Cereal at: http://www.insidemathematic s.org/performance- assessment-tasksOnline math skill practice at: https://www.ixl.com/standard s/new-jersey/math/grade-7A library of interactive, web- based virtual manipulatives at: http://nlvm.usu.edu/en/nav/v library.html

	SEVENTH GRADE MATHEMATICS					
Chapter	Lessons	Chapter Content:		Domain/ Common Core State	Suggested days for topic:15	
3	5	Expressions and Equation	ons	Standards	5 activities, 5 lessons, 1	
				Expressions and Equations/7.EE.1,	extension activity, Chapter	
				7.EE.2, 7.EE.4a	Opener, Quiz, Review, Test	
Lessons: Essential Questions				Resources, Materials, & Games	Assessments	

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 <i>ingestate Expressions</i>: New can you simplify an algebraic expression? <i>Adding and Subtracting Linear Expressions</i>: How can you use algebra tiles to add or subtract algebraic expressions? <i>Extension: Factoring Expressions</i> <i>Solving Equations Using Addition or Subtraction</i>: How can you use algebra tiles to solve addition or subtraction equations? <i>Solving Equations Using Multiplication or Division</i>: How can you use multiplication or 	 Resources Big Ideas Student Text Big Ideas Record & Practice Journal Big Ideas Resources by Chapter and Performance Tasks Online Account Materials & Manipulatives Algebra Tiles Envelope Index Cards Pencils (2) Color-coded Spinner with Operations Symbols Differentiation Opportunities Skills Review and Basic Skills Handbook Lesson Tutorials (online) Intensive Intervention Activities (online) Differentiating the Lesson (online) Enrichment and Extension Dnline Resources Check It Out: Lesson Tutorials at www.bigideasmath.com 	Summative What You Learned Before Chapter Test Quizzes Standards Assessment Formative Discovery Activity Observation and "What's Your Answer?" Responses Guided Practice Observation Lesson Summary Responses Homework
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	SEVENTH GRADE MATHEMATICS					
Chapter	Lessons	Chapter Content:		Domain/ Common Core State	Suggested days for topic:15	
3	5	Expressions and Equati	ons	Standards	5 activities, 5 lessons, 1	
				Expressions and Equations/7.EE.1,	extension activity, Chapter	
				7.EE.2, 7.EE.4a	Opener, Quiz, Review, Test	
					Additional Online	
		Objectives		Key Vocabulary	Resources	
		essions: Students will			One Grain of Rice at:	
		aic expressions by	like tei	rms	http://illuminations.nctm.or	
CC	ombining like	terms.	simple	est form	g∕	
2 4	d din a mu d Coul	ture etime. I in a me	linear	expression		
		<i>tracting Linear</i> udents will use a	factori	ng an expression	Toy Train at:	
		ertical format to add and	equiva	lent equations	http://www.insidemathemat	
		expressions. Students			ics.org/performance-	
		ar expressions.			<u>assessment-tasks</u>	
		-				
	•••	ons Using Addition or			Online math skill practice at:	
		udents will write			https://www.ixl.com/standa	
		use the addition and			rds/new-jersey/math/grade-	
	olve equation	operties of equality to			Z	
SC	nve equations).				
4. Sc	olving Equatio	ons Using Multiplication or			A library of interactive, web-	
Di	ivision: Stude	nts will write equations				
		ltiplication and division			based virtual manipulatives	
րլ	roperties of e	quality to solve equations.			at: http://nlvm.usu.edu/en/nav	
					/vlibrarv.html	
					/ viibrary.iittiii	

5. Solving Two-Step Equations: Students will solve two-step equations by undoing operations in reverse order.	

SEVENTH GRADE MATHEMATICS					
Chapter	Lessons	Chapter Content:	Domain/ Common Core State	Suggested days for topic:12	
4	4	Inequalities	Standards	4 activities, 4 lessons,	
			Expressions and Equations 7.EE.4b	Chapter Opener, Quiz,	
				Review, Test	

	Lessons: Essential Questions	Resources, Materials, & Games	Assessments
1.	<i>Writing and Graphing Inequalities:</i> How can you use a number line to	<i>Resources</i>Big Ideas Student Text	Summative
	represent solutions of an inequality?	 Big Ideas Record & Practice Journal Big Ideas Resources by Chapter and 	What You Learned Before
2.	Solving Inequalities Using Addition or Subtraction: How can you use	Performance Tasks Online Account 	Chapter Test
	addition or subtraction to solve an inequality?	Materials & Manipulatives	Quizzes
3	Solving Inequalities Using	 Pre-made Number Lines Per Pair of Students (10) 	Standards Assessment
5.	<i>Multiplication or Division:</i> How can you use multiplication or division to	Index CardsTangram Pieces	
	solve an inequality?	Differentiation Opportunities Skills Review and Basic Skills Handbook 	Formative
		Lesson Tutorials (online)	Discovery Activity
4.	Solving Two-Step Equations: How can	Intensive Intervention Activities (online)	Observation and "What's
	you use addition, subtraction,	 Differentiating the Lesson (online) 	Your Answer?" Responses
	multiplication and division to solve	Enrichment and Extension	
	two step inequalities?	Online Resources	Guided Practice Observation
		Dynamic Classroom (technology)Game Closet	Lesson Summary Responses
		Check It Out: Lesson Tutorials at <u>www.bigideasmath.com</u>	Homework

SEVENTH GRADE MATHEMATICS

Chapte	r Lessons	Chapter Content:		Domain/ Common Core State	Suggested days for topic:12
4	4	Inequalities		Standards	4 activities, 4 lessons,
				Expressions and Equations 7.EE.4b	Chapter Opener, Quiz,
					Review, Test
					Additional Online
	Lessons:	Objectives		Key Vocabulary	Resources
1.	Writing and G	Graphing Inequalities:			
		write and graph	inequa	llity	Online math skill practice at:
j	inequalities. S	Students will determine	solutio	on of an inequality	https://www.ixl.com/standa
•	whether a val	lue is a solution of an	solutio	on set	rds/new-jersey/math/grade-
j	inequality.		graph	of an inequality	<u>Z</u>
2.	Solving Inequ	alities Using Addition or			
	Subtraction: S	Students will use the			A library of interactive, web-
i	addition and s	subtraction properties			based virtual manipulatives
(of inequality (to solve inequalities.			at:
					http://nlvm.usu.edu/en/nav
3.	Solving Inequ	alities Using			/vlibrary.html
	Multiplication	or Division: Students			
,	will use the m	ultiplication and			
		erties of inequality to			
:	solve inequali	ities.			
	-				
4.	Solving Two-S	Step Equations: Students			
,	will solve and	l graph two-step			
	inequalities.	•			
	•				

			SEVENTH GRADE MATHEMATICS	
Chapter	Lessons	Chapter Content:	Domain/ Common Core State	Suggested days for topic:17
5	6	Ratios and Proportions	Standards	6 activities, 6 lessons, 1
			Ratios and Proportional Relationships	extension activity, Chapter
			7.RP.1, 7.RP.2a-d, 7.RP.3	Opener, Quiz, Review, Test
Le	ssons: Esse	ential Questions	Resources, Materials, & Games	Assessments

Medford Lakes School District Math Curriculum Guide - Grade 7

Written by: Kathy O'Brien Text/Program: "Big Ideas"

1. 2.	Ratios and Rates: How do rates help you describe real-life problems?Proportions: How can proportions help you decide when things are "fair"?	 Resources Big Ideas Student Text Big Ideas Record & Practice Journal Big Ideas Resources by Chapter and Performance Tasks Online Account 	<i>Summative</i> What You Learned Before Chapter Test
	Extension: Graphing Proportional Relationships	Materials & Manipulatives Index Cards, Baseball bat Calculators 	Quizzes Standards Assessment
3.	<i>Writing Proportions</i> : How can you write a proportion that solves a problem in real life?	 Containers Filled with Water (2) Decks of Cards, Food Coloring Grid Paper, Measuring Tape Square Tiles, Stopwatch String, Wind-up Toy 	Formative
4.	<i>Solving Proportions</i> : How can you use ratio tables and cross products to solve proportions?	Differentiation Opportunities • Skills Review and Basic Skills Handbook	Discovery Activity Observation and "What's
5.	<i>Slope</i> : How can you compare two rates graphically?	 Lesson Tutorials (online) Intensive Intervention Activities (online) Differentiating the Lesson (online) Enrichment and Extension 	Your Answer?" Responses
6.	<i>Direct Variation</i> : How can you use a graph to show the relationship between two quantities that vary directly? How can you use an equation?	 Online Resources Dynamic Classroom (technology) Game Closet Check It Out: Lesson Tutorials at www.bigideasmath.com 	Lesson Summary Responses Homework

SEVENTH GRADE MATHEMATICS

Chapt	er Lessons	Chapter Content:		Domain/ Common Core State	Suggested days for topic:17
5	6	Ratios and Proportions		Standards	6 activities, 6 lessons, 1
				Ratios and Proportional Relationships	extension activity, Chapter
			-	7.RP.1, 7.RP.2a-d, 7.RP.3	Opener, Quiz, Review, Test
					Additional Online
		: Objectives		Key Vocabulary	Resources
1.		s: Students will find ratios,			Space Shuttle, How Much is a
		ates from words, tables and	ratio		Million, Now and Then and
	graphs.		rate		The Cost of Being Late at:
2.	Proportions: Stu	ıdents will use equivalent	unit ra	te	http://illuminations.nctm.or
2.		Cross Products property to	comple	ex fraction	g/
		ther two ratios form a	propor	ction	
		udents will graph and	propor	rtional	Cereal and Cat Food at:
		s of proportional	cross products		http://www.insidemathemat
	relationships.		slope		ics.org/performance-
З.	Writing Proport	tions: Students will write and	direct	variation	assessment-tasks
		h to solve proportions.	consta	nt of proportionality	
					Online math skill practice at:
4.		ions: Students will solve			https://www.ixl.com/standa
		ng the Cross Products ents will use a point on a			rds/new-jersey/math/grade-
		and solve proportions.			<u>7</u>
	8				—
5.		will determine the slope a			
		bh. Students will interpret the			A library of interactive, web-
	slopes of lines a	as rates.			based virtual manipulatives
6.	Direct Variation	a: Students will identify direct			at:
0.		graphs or equations.			http://nlvm.usu.edu/en/nav
		se direct variation models to			/vlibrary.html
	solve problems	•			······

	SEVENTH GRADE MATHEMATICS				
Chapter	Lessons	Chapter Content:	Domain/ Common Core State	Suggested days for topic:18	
6	7	Percents	Standards	7 activities, 7 lessons,	
			Ratios and Proportional	Chapter Opener, Quiz,	
			Relationships/7.RP.3	Review, Test	
			Expressions and Equations/7.EE.3		
Le	Lessons: Essential Questions		Resources, Materials, & Games	Assessments	

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1.		nals: How does the decimal you rewrite a percent as a	Resources Big Ideas Student Text 	Summative		
		you rewrite a decimal as a	 Big Ideas Record & Practice Journal Big Ideas Resources by Chapter and Performance 	What You Learned Before		
2.	Percents:	dering Fractions, Decimals, and r numbers that are written as	Tasks Online Account 	Chapter Test		
	fractions, decimals		Materials & Manipulatives Index Cards, Calculator 	Quizzes		
3.	<i>The Percent Propo</i> to estimate percen	rtion: How can you use models it questions?	 Deck of Cards Egg Carton 	Standards Assessment		
4.		<i>ion</i> : n equivalent form of the n to solve a percent problem?	 Newspaper Whiteboard Differentiation Opportunities	Formative		
5.	5. Percents of Increase and Decrease: What is a percent of decrease? What is a percent of increase?		 Skills Review and Basic Skills Handbook Lesson Tutorials (online) Intensive Intervention Activities (online) 	Discovery Activity Observation and "What's Your Answer?" Responses		
6. 7.	Discounts and Mar How can you find of Simple Interest:	<i>kups</i> : discounts and selling prices?	 Differentiating the Lesson (online) Enrichment and Extension 	Guided Practice Observation		
7.	How can you find the earned on a saving	the amount of simple interest as account? How can you find rest owed on a loan?	Online Resources Dynamic Classroom (technology) Game Closet 	Lesson Summary Responses		
	the amount of mee		Check It Out: Lesson Tutorials at <u>www.bigideasmath.com</u>	Homework		
	SEVENTH GRADE MATHEMATICS					
Chapt	er Lessons	Chapter Content:	Domain/ Common Core State	Suggested days for topic:18		
6	7	Percents	Standards	7 activities, 7 lessons,		
			Ratios and Proportional	Chapter Opener, Quiz,		
			Relationships/7.RP.3	Review, Test		
			Expressions and Equations/7.EE.3			

	Lessons: Objectives	Key Vocabulary	Additional Online Resources
1.	<i>Percents and Decimals</i> : Students will convert decimals to percents and percents to decimals.	percent of change percent of increase	Where is Everybody, Using an Elevator to Evaluate Signed Number Expressions, The Giant Cookie Dilemma and The Cost
2.	<i>Comparing and Ordering Fractions, Decimals, and Percents</i> : Students will compare and order percents, decimals and fractions.	percent of decrease percent error discount	of Being Late at: <u>http://illuminations.nctm.or</u>
3.	<i>The Percent Proportion</i> : Students will use the percent proportion to solve three types of percent problems.	markup interest principal simple interest	Toy Train at: <u>http://www.insidemathemat</u>
4.	<i>The Percent Equation</i> : Students will use the percent equation to solve three types of percent problems.		ics.org/performance- assessment-tasks
5.	<i>Percents of Increase and Decrease:</i> Students will use the percent of change formula to find percents of increase and decrease.		Online math skill practice at: https://www.ixl.com/standa rds/new-jersey/math/grade- Z
6.	<i>Discounts and Markups</i> : Students will find the discounts and markups of items.		A library of interactive, web- based virtual manipulatives at:
7.	<i>Simple Interest</i> : Students will use the simple interest formula to find interest, annual interest rates and the amounts paid on loans.		<u>http://nlvm.usu.edu/en/nav</u> <u>/vlibrary.html</u>

SEVENTH GRADE MATHEMATICS

Medford Lakes School District Math Curriculum Guide - Grade 7 Written by: Kathy O'Brien

Chapter	r Lessons	Chapter Content:		Domain/ Common Core State	Suggested days for topic: 17
7	5	Constructions and Scale	e	Standards	5 activities, 5 lessons, 1
		Drawings		Geometry 7.G.1, 7.G.2, 7.G.5	Extension Activity, Chapter
					Opener, Quiz, Review, Test
L	Lessons: Esse	ential Questions		Resources, Materials, & Games	Assessments
1. A	Adjacent and	Vertical Angles: What	Resourc		Summative
	-	ude about the angles o intersecting lines?	•	Big Ideas Student Text Big Ideas Record & Practice Journal Big Ideas Resources by Chapter and Performance Tasks	What You Learned Before
	•	ry and Supplementary an you classify two	•	Online Account	Chapter Test
	angles as com supplementar	plementary or 'y?	Materia •	<i>ls & Manipulatives</i> Geoboard, Geoboard Dot Paper	Quizzes
	<i>Friangles:</i> How riangles?	w can you construct	• • • •	Geometry Software Maps from the Internet Protractor, Ruler, Straws File Folders, Picture of Ohio State Flag Game Cards	Standards Assessment
	Extension: An Friangles	gle Measures of		tiation Opportunities	Formative
	Quadrilaterals quadrilaterals	s: How can you classify s?		Skills Review and Basic Skills Handbook Lesson Tutorials (online) Intensive Intervention Activities (online) Differentiating the Lesson (online) Enrichment and Extension	Discovery Activity Observation and "What's Your Answer?" Responses
5. S	Scale Drawing	<i>ys:</i> How can you enlarge			Guided Practice Observation
C	or reduce a dr	rawing proportionally?	Online R •	<i>lesources</i> Dynamic Classroom (technology) Game Closet	Lesson Summary Responses
			•	Check It Out: Lesson Tutorials at www.bigideasmath.com	Homework

	SEVENTH GRADE MATHEMATICS						
Chapte	Chapter Lessons Chapter Content:			Domain/ Common Core State	Suggested days for topic:17		
7	5	Constructions and Scale	e	Standards	5 activities, 5 lessons, 1		
		Drawings		Geometry 7.G.1, 7.G.2, 7.G.5	Extension Activity, Chapter		
					Opener, Quiz, Review, Test		
					Additional Online		
	Lessons:	Objectives		Key Vocabulary	Resources		
		rtical Angles: Students will			Scaling the City at:		
		and adjacent angles.	adjace	nt angles	http://illuminations.nctm.or		
	adjacent and ver	d angle measures using	vertica	l angles	g∠		
		ticul ungles.	0	ient angles			
		and Supplementary Angles:	comple	ementary angles	Online math skill practice at:		
		ssify pairs of angles as		mentary angles	https://www.ixl.com/standa		
		supplementary or neither. d angle measures using	0	ient sides	rds/new-jersey/math/grade-		
		and supplementary angles.	kite		<u>7</u>		
	r	Jerre		rawing			
		nts will classify and	scale n	nodel			
		les using angles and sides.	scale		A library of interactive, web-		
	triangles.	d missing angle measures in	scale fa	actor	based virtual manipulatives		
	ti lungies.				at:		
		tudents will classify and			http://nlvm.usu.edu/en/nav		
	construct quadrilaterals. Students will find				/vlibrary.html		
	an angle measur	e of a quadrilateral.					
5.	Scale Drawinas [.]	Students will use scale					
		actual distance. Students					
,	will find scale fac	ctors. Students will use scale					
	drawings to find	perimeters and areas.					



	SEVENTH GRADE MATHEMATICS						
Chapte 8	er Lessons 4	Chapter Content: Circles and Area		Domain/ Common Core State Standards Geometry/7.G.4, 7.G.6	Suggested days for topic:12 4 activities, 4 lessons, Chapter Opener, Quiz, Review, Test		
	Lessons: Esse	ential Questions		Resources, Materials, & Games	Assessments		
	you find the c circle?	<i>ccumference</i> : How can ircumference of a	Resourd • •	<i>ces</i> Big Ideas Student Text Big Ideas Record & Practice Journal Big Ideas Resources by Chapter and	<i>Summative</i> What You Learned Before		
	-	<i>Composite Figures</i> : find the perimeter of a ure?	• Materia	Performance Tasks • Online Account Materials & Manipulatives • Pieces of Paper • File Folders • Tangrams	Chapter Test Quizzes		
	area of a circle		•		Standards Assessment		
		<i>oosite Figures</i> : find the area of a ure?	•	ntiation Opportunities Skills Review and Basic Skills Handbook Lesson Tutorials (online) Intensive Intervention Activities (online) Differentiating the Lesson (online) Enrichment and Extension	<i>Formative</i> Discovery Activity Observation and "What's Your Answer?" Responses Guided Practice Observation		
			Online • •	<i>Resources</i> Dynamic Classroom (technology) Game Closet	Lesson Summary Responses		

Check It Out: Lesson Tutorials at <u>www.bigideasmath.com</u>	Homework

	SEVENTH GRADE MATHEMATICS				
Chapter	Lessons	Chapter Content:		Domain/ Common Core State	Suggested days for topic:12
8	4	Circles and Area		Standards	4 activities, 4 lessons,
				Geometry/7.G.4, 7.G.6	Chapter Opener, Quiz,
					Review, Test
					Additional Online
	Lessons: Objectives			Key Vocabulary	Resources

Medford Lakes School District Math Curriculum Guide - Grade 7

Written by: Kathy O'Brien Text/Program: *"Big Ideas"*

1.	,		
	will find the radius, diameter and	circle	The Giant Cookie Dilemma
	circumference of a circle.	center	at:
		radius	http://illuminations.nctm.or
2.	Perimeters of Composite Figures:	diameter	g∕
	Students will find perimeters of	circumference	
	composite figures.	pi	Online math skill practice at:
		semicircle	https://www.ixl.com/standa
З.	5	composite figure	rds/new-jersey/math/grade-
	areas of semi-circles and circles.		<u>7</u>
4.	Areas of Composite Figures:		
	Students will divide composite		A library of interactive, web-
	figures into familiar geometric		based virtual manipulatives
	shapes to find the total area.		at:
			http://nlvm.usu.edu/en/nav
			<u>/vlibrary.html</u>

SEVENTH GRADE MATHEMATICS

Medford Lakes School District Math Curriculum Guide - Grade 7 Written by: Kathy O'Brien

Chapte	r Lessons	Chapter Content:	Domain/ Common Core State	Suggested days for topic:16
9	5	Surface Area and Volum	e Standards	5 activities, 5 lessons, 1
			Geometry	extension activity, Chapter
			7.G.4, 7.G.6	Opener, Quiz, Review, Test
L	Lessons: Essential Questions		Resources, Materials, & Games	Assessments
1	Surface Area	of Prisms: How can you	Resources	Summative
2. S H	Surface Area d	ce area of a prism? of Pyramids: find the surface area of	 Big Ideas Student Text Big Ideas Record & Practice Journal Big Ideas Resources by Chapter and Performance Tasks Online Account 	What You Learned Before Chapter Test
	15		Materials & Manipulatives	Quizzes
H	Surface Area c Iow can you f a cylinder?	of Cylinders: find the surface area of	 Cans, Cardboard Cylinder Masking Tape, Ruler Scissors, Sheets of Paper, Unit Cubes Bingo Chips, Flashlight, Marbles Distance of Transcenerics Properties Properties From the Particulation of the P	Standards Assessment
	<i>Volume of Pris</i> Yow can you f	sms: find the volume of a	 Picture of Transamerica Pyramid Building from Internet Ream of Paper, Solid Box 	Formative
	orism?		 Variety of Containers, 3-Dingo Cards 	Discovery Activity
5. V H	<i>Volume of Pyr</i> Yow can you f	<i>amids</i> : find the volume of a	 Differentiation Opportunities Skills Review and Basic Skills Handbook Lesson Tutorials (online) 	Observation and "What's Your Answer?" Responses
ţ	oyramid?		Intensive Intervention Activities (online)Differentiating the Lesson (online)	Guided Practice Observation
	Extension: Cro Dimensional H	oss Sections of Three-	Enrichment and Extension	Lesson Summary Responses
I	Junensional I	igui co	Online Resources Dynamic Classroom (technology) Game Closet 	Homework

Check It Out: Lesson Tutorials at <u>www.bigideasmath.com</u>	

	SEVENTH GRADE MATHEMATICS				
Chapter	Lessons	Chapter Content:		Domain/ Common Core State	Suggested days for topic:16
9	5	Surface Area and Volum	ne	Standards	5 activities, 5 lessons, 1
				Geometry	extension activity, Chapter
				7.G.4, 7.G.6	Opener, Quiz, Review, Test
				Additional Online	
	Lessons: Objectives			Key Vocabulary	Resources

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1.	Surface Area of Prisms: Students will		The Giant Cookie Dilemma
	find the surface areas of rectangular	lateral surface area	and Tree Talk at:
	and triangular prisms.	regular pyramid	http://illuminations.nctm.or
		slant height	g∠
2.	Surface Area of Pyramids:	cross section	
	Students will find the surface areas of		Online math skill practice at:
	square and triangular prisms.		https://www.ixl.com/standa
			rds/new-jersey/math/grade-
3.	Surface Area of Cylinders:		<u>7</u>
	Students will find the surface areas of		
	cylinders.		
4			A library of interactive, web-
4.	Volume of Prisms:		based virtual manipulatives
	Students will find volumes of prisms.		at:
F	Volume of Duramida.		http://nlvm.usu.edu/en/nav
5.	<i>Volume of Pyramids</i> : Students will find volumes of		<u>/vlibrary.html</u>
	pyramids. Students will describe the		
	cross sections of three-dimensional		
	figures.		
	11541 co.		

	SEVENTH GRADE MATHEMATICS				
Chapter	Lessons	Chapter Content:	Domain/ Common Core State	Suggested days for topic:20	
10	7	Probability and Statistics	Standards		

Lessons: Essential Questions	Resources, Materials, & Games	
		Assessments
1. <i>Outcomes and Events</i> : In an experiment, how can you determine the number of possible	Big Ideas Student Text	Summative
results?	Big Ideas Record & Practice JournalBig Ideas Resources by Chapter and Performance	What You Learned Before
2. <i>Probability</i> : How can you describe the likelihood of an event?	Tasks Online Account 	Chapter Test
3. <i>Experimental and Theoretical Probability:</i> How can you use relative frequencies to find	Materials & Manipulatives Calculators, Coins, Dimes 	Quizzes
probabilities?	 Packing Peanuts, Paper Clip Combination Lock, Cups 	Standards Assessment
4. <i>Compound Events</i> : How can you find the number of possible outcomes of one or mor events?	Deck of Cards Hot Cocoa Mix	Formative
5. <i>Independent and Dependent Events</i> : What is the difference between dependent and independent events?	 Differentiation Opportunities Skills Review and Basic Skills Handbook Lesson Tutorials (online) 	Discovery Activity Observation and "What's
6. <i>Samples and Populations</i> : How can you determine whether a sample accurately represents the population?	 Intensive Intervention Activities (online) Differentiating the Lesson (online) Enrichment and Extension 	Your Answer?" Responses Guided Practice Observation
7. <i>Comparing Populations</i> : How can you compare data sets that represent two	Online Resources Dynamic Classroom (technology) 	Lesson Summary Responses
populations?	 Game Closet Check It Out: Lesson Tutorials at www.bigideasmath.com 	Homework
	SEVENTH GRADE MATHEMATICS	

Chapte	er Lessons	Chapter Content:		Domain/ Common Core State	Suggested days for topic:20
10	7	Probability and Statistic	CS	Standards	7 activities, 7 lessons, 2,
				Statistics and Probability 7.SP.1, 7SP.2,	Extensions, Chapter Opener,
				7SP.3, 7SP.3, 7SP.4, 7SP.5, 7SP.6, 7SP.7a-	Quiz, Review, Test
				b, 7.SP.8a-C	
					Additional Online
	Lessons:	Objectives		Key Vocabulary	Resources
		nts: Students will identify and			
	count the outcome	es of an experiment.	experi	ment	How Much is a Million and
2.	Probability: Stude	ents will compute the	outcon	nes	Tree Talk at:
	probability of an e		event		http://illuminations.nctm.or
3.	Experimental and	Theoretical Probability:	favora	ble outcomes	g/
		pute the experimental	probab	oility	
	probability and th	eoretical probability of an	relativ	e frequency	Fair Game and Ducklings at:
	event.		experi	mental probability	http://www.insidemathemat
4.	Compound Events:	Students will find the number	theore	tical probability	ics.org/performance-
	of outcomes of con	mpound events using tree	sample	e space	assessment-tasks
		r a formula. Students will find a compound event.	Funda	mental Counting Principle	
	the probability of	a compound event.	compo	ound event	Online math skill practice at:
		Dependent Events: Students will	indepe	endent events	https://www.ixl.com/standa
		cal probabilities of independent ents. Students will use	-	dent events	rds/new-jersey/math/grade-
		d experimental probabilities.	simula	tion	<u>7</u>
			popula	ition	
		lations: Students will identify	sample		
	biased and unbiased samples. Students will use multiple samples to make predictions about			ed sample	A library of interactive, web-
	populations.		biased	sample	based virtual manipulatives
7					at:
		<i>itions</i> : Students will compare sing measures of center,			http://nlvm.usu.edu/en/nav
	measures of varia				/vlibrary.html