Learning Expectations & (Related Standard)	Content Outline (Unit/Time)	Activities / Instructional Strategies	Enrichment Options	Reinforcement Options	Assessment Procedures
Students will name and construct geometric figures. (2.9.4.a,d,e,g)	Unit 1 (3 wks)	 Describe a line segment and a line. Compare/contrast plane figures. Draw quadrangles. Draw parallel lines, intersecting lines and line segments. Understand right angles. Name/identify lines and rays. Name polygons. Identify properties of polygons. Construct circles with compasses. Solve addition/subtraction facts. Demonstrate automaticity with addition facts and subtraction facts. 	1. Solve Collinear-Points Puzzle for enrichment. 2. Draw tangent circles. 3. Create a personal geometry poster to illustrate geometric terms from Unit 1. 4. Read The Greedy Triangle and Math Curse. 5. Design a compass to draw a large circle on a playground. 6. Create a six-point design from a circle. 7. Shape Surveyor Game www.funbrain.com 8. Continental Math League Enrichment Class (on-going throughout the year) 9. Hands-on Algebra Enrichment Class (on-going throughout the year) 10. Visit Website: http://everydaymath.org/stude nts.htm	1. Play Addition Top-It. 2. Use relation symbols to compare numbers using Math Masters page 6. 3. Refer to 5-Minute Math book for reinforcement activities. 4. Play Subtraction Top-It. 5. Take a Geometry tour around the building searching for geometric patterns. 6. Inscribe an equilateral triangle in a circle. 7. Play Geometry Five Questions to identify a shape. 8. Play Name That Polygon. 9. Visit Website: http://everydaymath.org/students.htm	Unit 1 Assessment Study Links Unit 1 Quiz Math Boxes

Learning Expectations & (Related Standard)	Content Outline (Unit/Time)	Activities / Instructional Strategies	Enrichment Options	Reinforcement Options	Assessment Procedures
Students will use numbers	Unit 2	1. Using a set of data, find			Unit 2 Assessment
and organize data.	(2-3 wks)	the maximum,			
(2.2.4.b,g and 2.6.4.g)		minimum, range,			Study Links
		median, and mode.			
		2. Display data with a line			Unit 2 Quiz
		plot, bar graph, or tally	1. Play Polygon Pair-		
		chart.	Up.	1. Complete name	Math Boxes
		3. Use the statistical	2. Solve Pan-Balance	collection boxes.	
		landmarks median,	problems.	2. Play Addition-Top-It.	
		mode, and range	3. Solve Number-Grid	3. Refer to 5-minute	
		4. Use the statistical	Puzzles.	math activities.	
		landmarks maximum	4. Use a map scale to	4. Use the World Tour	
		and minimum	find distances.	section of the Student	
		5. Have a successful	5. Read a book entitled	Reference Book to find	
		strategy for subtracting	How Much Is a Million?	facts for Washington,	
		multi-digit numbers	6. Play Number Top-It.	D.C.	
		6. Have a successful	7. Compare family size	5. Read a story that	
		strategy for adding	data.	illustrates equivalent	
		multidigit numbers	8. Determine the	names: Twelve Ways to	
		7. Read and write	validity of "One Size	Get Eleven.	
		numerals to hundred-	Fits All" claim.	6. Practice reading and	
		millions; give the value	9. CML – Continental	writing numbers on a calculator.	
		of the digits in	Math League & Hands-	7. Model the trade-	
		numerals in hundred- millions	on Algebra Enrichment		
		8. Give equivalent names	Classes (continued throughout the school	first method with base- 10 blocks.	
		for numbers	year.)	8. www.funbrain.com	
		ioi iiuilibeis	10. Visit Website:	Math Baseball Game	
			http://everydaymath.org/stude	Soccer Shootout	
			nts.htm	Match Car Racing	
				9. Visit Website:	
		Review strategies for		http://everydaymath.org/stude	
		solving multiplication.		nts.htm	Unit 2 Assassment
		Solving muniphication.			Unit 3 Assessment

Learning Expectations & (Related Standard)	Content Outline (Unit/Time)	Activities / Instructional Strategies	Enrichment Options	Reinforcement Options	Assessment Procedures
Students will use multiplication and division and apply it to number sentences and algebra. (2.2.4. and 2.8.4.c)	Unit 3 (3-4 wks)	2. Explore relationship between multiplication and division facts. 3. Solve open sentences. 4. Insert parentheses to make true number sentences and solve problems with parentheses included. 5. Determine whether number sentences are true or false. 6. Use and explain strategies for solving addition and subtraction number stories. 7. Use a map scale to estimate distances. 8. Solve basic division facts. 9. Solve basic multiplication facts. 10. Explore the relationship between multiplication and division. 1. Write the numbers between 2 whole numbers using decimals.	1. Play game Division Arrays 2. Explore the relationship between division and fractions. 3. Use the internet to find country facts. 4. Write and solve number stories about air distances. 5. Write and solve number stories. 6. Hands-On Algebra Enrichment Class. 7. Continental Math League Enrichment Class. 8. Website for Enrichment Activities: www.yahooligans.com 9. Play Seega. 10. Visit Website: http://everydaymath.org/stude	1. Play Name That Number. 2. Play Multiplication Top-It. 3. Practice 9-facts with fingers. 4. Practice multiplication facts with games from Student Reference Book. 5. Play Name That Number & Broken Calculator. 6. www.funbrain.com or www.multiplication.co m 7. Play Beat the Calculator. 8. Play Math Multiplication Baseball game, Soccer Shootout,	Study Links Unit 3 Quiz Math Boxes
		Solve open number sentences.	<u>nts.htm</u>	or Match Car Racing. 9. Visit Website:	Unit 4 Assessment

Learning Expectations & (Related Standard)	Content Outline (Unit/Time)	Activities / Instructional Strategies	Enrichment Options	Reinforcement Options	Assessment Procedures
Students will understand decimals and their uses. (2.1.4.a,d)	Unit 4 (2-3 wks)	 Measure & draw line segments to the nearest ½ inch. Read and write decimals to thousandths. Compare and order decimals. Draw and measure line segments to the nearest centimeter. Use personal references to estimate lengths in metric units. Solve 1-and 2-place decimals addition and subtraction problems. Use dollar and cent notation. Estimate sums. Solve extended multiplication facts. Solve multi-digit multiplication problems. Add and subtract decimals. 	1. Design a measurement scavenger hunt. 2. Explore the use of prefixes in metric units. 3. Analyze softball batting averages. 4. Write decimal riddles. 5. Find a car's gasoline mileage. 6. Decimals: www.yahooligans.com 7. Explore "THE ONE" using Math Masters page 111. 8. Continental Math League Enrichment Class 9. Visit Website:	http://everydaymath.org/students.htm 1. Play Base-10 Exchange. 2. Play Number Top-It with decimals. 3. Play Name That Number. 4. Make and use a place value flip book. 5. Solve place value puzzles. 6. Refer to 5-Minute Math Activities for reinforcement. 7. Count by thousandths. 8. Visit Website: http://everydaymath.org/stude	Study Links Unit 4 Quiz Math Boxes Unit 5 Assessment
		5. Multiply using "What's	http://everydaymath.org/stude	nts.htm	Study Links

Learning Expectations & (Related Standard)	Content Outline (Unit/Time)	Activities / Instructional Strategies	Enrichment Options	Reinforcement Options	Assessment Procedures
Students will focus on big numbers, estimation, and computation. (2.1.4.a)	Unit 5 (2-3 wks)	My Rule?" tables. 6. Compare large numbers. 7. Measure to the nearest ¼ inch and 0.5 cm.	nts.htm		Unit 5 Quiz Math Boxes
		 Write number models to represent number stories. Solve open sentences using multiplication & division facts. Solve division problems with 1 digit divisors and 2 digit dividends. Solve decimal addition/subtraction 	1. Judge a "Multiplication Wrestling" competition using Math Masters page 142. 2. Play game-Scoring a Dart. 3. Investigate powers of 10 on a calculator. 4. Investigate "Napier's Rods" activity. 5. Solve multiplication and division puzzles. 6. Solve a traveling salesperson problem. 7. Make predictions	1. Use base-10 blocks for multiplication reinforcement. 2. Play Product Pile-up game for reinforcement. 3. Activities from 5-Minute Math activity book. 4. Play Multiplication Wrestling. 5. Model	Unit 6 Assessment Study Links

Learning Expectations & (Related Standard)	Content Outline (Unit/Time)	Activities / Instructional Strategies	Enrichment Options	Reinforcement Options	Assessment Procedures
Students will understand a division algorithm and will measure rotations and angles. (2.2.3.H)	Unit 6 (3-4 wks)	problems. 5. Solve multi-digit multiplication number stories. 6. Name and locate points on a coordinate grid. 7. Identify acute, obtuse, straight, and reflex angles. 8. Use a protractor to draw and measure angles. 9. Use and explain strategies for solving division number stories.	from data. 8. Begin a big number list. 9. Change Maker Game 10. Hand-On Algebra Enrichment Class 11. Continental Math League Enrichment Class 12. Round Bar Graph Data (in manual). 13. Visit Website: http://everydaymath.org/students.htm	multiplication with Base-10 blocks. 6. Play High Number Toss game. 7. Visit Website: http://everydaymath.org/stude nts.htm	Unit 6 Quiz Math Boxes
		 Describe fractions as equal parts of a whole. Solve "Fraction-Of" problems. Write equivalent fractions. Add and subtract fractions. Rename fractions. Compare and order fractions. Name fractions of regions/collections and find the ONE. 	 Measuring angles within triangles. Play game Grid Search. Use time to determine longitude. Play High Number Toss. Continental Math League Enrichment 	 Play Buzz and Bizz-Buzz. Review place value in decimals. Play Beat the Calculator. Play Division Dash. Use counters to find 	Unit 7 Assessment Study Links

Learning Expectations & (Related Standard)	Content Outline (Unit/Time)	Activities / Instructional Strategies	Enrichment Options	Reinforcement Options	Assessment Procedures
Students will understand fractions and their uses as well as understand chance and probability. (2.1.4 and 2.7.4)	Unit 7 (2-3 wks)	 8. Plot coordinates on a grid. 9. Multiply multi-digit numbers. 10. Divide multi-digit numbers by one-digit divisors. 	Class 6. Hands-On Algebra Enrichment Class 7. Solve elapsed time problems. 8. Make a model of a world globe. 9. Geometry Practice www.yahooligans.com 10. Hands-On Algebra Enrichment Class 11. Continental Math League Enrichment Class 12. Visit Website: http://everydaymath.org/stude nts.htm	equal-grouping problems. 6. Compare and model angles. 7. Change Maker Game www.funbrain.com 8. Visit Website: http://everydaymath.org/stude nts.htm	Unit 7 Quiz Math Boxes
		 Rename fractions with a denominator of 10 or 100 as a decimal and percent. Use data to create a line graph. Count squares to find the area of a polygon. Use formulas to find areas of shapes. Find the perimeter of a polygon. Calculate the perimeter of a polygon when the length of one side is 	 Compare actual and expected results of the 1,000 Cube Drop. Investigate chance events. 	 Play Fraction Top-It. Create Base-10 block designs. 	Unit 8 Assessment Study Links

Learning Expectations & (Related Standard)	Content Outline (Unit/Time)	Activities / Instructional Strategies Enrichment Options Options	Assessment Procedures
Students will understand	Unit 8	missing. 3. Play Getting To One. 3. Complete Name-	Unit 8 Quiz
perimeter and area.	(2 wks)	7. Solve fraction addition 4. Create Fraction Art. Collection boxes on	
(2.9.4)		and subtraction 5. Exploring Tangrams. Math Masters page	Math Boxes
		problems. 6. Read <u>Grandfather</u> 397.	
		8. Describe a strategy for Tang's Story. 4. Use 5-Minute Math	
		finding and comparing 7. Modeling fractions book for reinforcement	
		the areas of a square with other activities.	
		and a polygon. denominators on a 5. Dividing shapes into	
		9. Calculate and express clock face. equal parts by reading	
		the probability of an 8. Fraction Games the book <u>Gator Pie.</u>	
		event as a fraction. <u>www.yahooligans.com</u> 6. Play Fraction Match.	
		9. Hands-On Algebra 7. Solve frames and	
		1. Find equivalent Enrichment Class. arrows problems on	
		fractions. 10. Continental Math Masters p. 393.	
		2. Rename fourths, fifths, League Enrichment 8. Visit Website:	
		tenths, and hundredths Class http://everydaymath.org/stude	
		as decimals and 11. Visit Website:	
		percents. http://everydaymath.org/stude	
		3. Solve "Fraction-Of"	
		problems.	
		4. Divide a multi-digit	
		number by a 1 digit	
		divisor.	
		5. Interpret a map scale.	
		6. Draw conclusions from	
		a data representation.	
		7. Estimate the product of	
		a whole number and a	
		decimal.	Unit 9 Assessment
		8. Estimate the quotient	
		of a decimal divided by 1. Investigate Pattern-	Study Links
		a whole number. Block perimeters on	
			Unit 9 Quiz

Learning Expectations & (Related Standard)	Content Outline (Unit/Time)	Activities / Instructional Strategies	Enrichment Options	Reinforcement Options	Assessment Procedures
Students will understand percents. (2.1.4)	Unit 9 (2-3 wks)	 Plot points in the first quadrant of a coordinate grid. Compare fractions with like numerators or like denominators. Use a transparent mirror to sketch and describe a reflection. Describe a pattern and use it to solve a problem. Identify and sketch an example of a reflection. Identify examples of translations and rotations. Express the probability of an event as a fraction. 	Math Masters page 249. 2. Explore different polygons with the same area. 3. Make a scale drawing of your bedroom. 4. Constructing figures with a compass and straightedge. 5. Use division to compare numbers of mammal species. 6. Continental Math League Enrichment Class 7. Explore the relationship between the perimeter and area of a rectangle. 8. Shape Surveyor Game www.funbrain.com 9. Visit Website: http://everydaymath.org/stude nts.htm	1. Investigate perimeter and area on a geoboard. 2. Refer to 5-Minute Math for reinforcement activities. 3. Converting square inches to square feet. 4. Find the area of rectangles. 5. Play "Fraction-Of". 6. Play Rugs and Fences 7. Visit Website: http://everydaymath.org/students.htm	Unit 10 Assessment Study Links Unit 10 Quiz

Learning Expectations & (Related Standard)	Content Outline (Unit/Time)	Activities / Instructional Strategies	Enrichment Options	Reinforcement Options	Assessment Procedures
•	Outline	The state of the s	1. Write and solve "Percent-Of" number stories. 2. Solve Discount number stories. 3. Make a percent booklet. 4. Estimate what percent of a circle graph is shaded. 5. Graph survey results. 6. Percents game www.yahooligans.com 7. Display Literacy data on Math Masters pages 293 and 295. 8. Compare products using Math Masters		
			pages 114 and 428. 9. Continental Math League Enrichment Class 10. Visit Website: http://everydaymath.org/stude http://exerydaymath.org/stude 	Masters page 283. 8. Visit Website: http://everydaymath.org/stude nts.htm	Unit 11 Assessment Study Links Unit 11 Quiz Math Boxes

Learning Expectations & (Related Standard)	Content Outline (Unit/Time)	Activities / Instructional Strategies	Enrichment Options	Reinforcement Options	Assessment Procedures
Students will explore shapes, weight, volume, and capacity. (2.9.4 and 2.1.4)	Unit 11 (2 wks)	 Write number sentences comparing two numbers between 100 and -100. Describe the rule for a pattern and use that rule to solve problems. Use given data to create a line graph. Insert parentheses in number sentences to make them true. Use scaling to model multiplication and division. Demonstrate automaticity with multiplication facts through 10 X 10. 	1. Explore Shadows and Reflections using Math Masters page 389. 2. Solve Paper Folding Puzzles using Math Masters page 308. 3. Explore reflections and lines of reflection. 4. Explore reflections of 3-dimensional figures using Math Masters page 447. 5. Explore arrangements of four straws using Math Masters page 437. 6. Create frieze patterns. 7. Explore tessellations. 8. Visit Website: http://everydaymath.org/stude	1. Play Over And Up Squares. 2. Refer to 5-Minute Math book for reinforcement activities. 3. Explore line symmetry using Math Masters page 317. 4. Create a paint reflection. 5. Display pictures of symmetric objects. 6. Explore geometric patterns using Math Masters page 389. 7. Create Frieze patterns using Math Masters page 319. 8. Visit Website: http://everydaymath.org/students.htm	Unit 12 Assessment Study Links Unit 12 Quiz Math Boxes

Learning Expectations & (Related Standard)	Content Outline (Unit/Time)	Activities / Instructional Strategies	Enrichment Options	Reinforcement Options	Assessment Procedures
Students will be exposed to rates, ratios, and proportional thinking. (2.6.4)	Unit 12 (3 wks)		1. Explore Euler's Polyhedral formula using Math Masters page 389. 2. Create cube nets using Math Masters pages 389 & 444. 3. Explore penticubes using Math Masters page 389. 4. Estimate the volume of a sheet of paper using Math Masters pages 388 and 389. 5. Model the capacity	1. Estimate weights. 2. Find Rectangular prisms using Math Masters page 389. 3. Play "What's My Weight?" 4. Compare geometric solids using Math Masters page 390. 5. Solve spatial-visualization puzzles using Math Master page 332. 6. Refer to 5-Minute Math book for reinforcement activities. 7. Estimate capacity using Math Masters	
			of annual rice consumption using	page 389. 8. Visit Website: http://everydaymath.org/stude	

Learning Expectations & (Related Standard)	Content Outline (Unit/Time)	Activities / Instructional Strategies	Enrichment Options	Reinforcement Options	Assessment Procedures
	(Onit/Time)		Math Journal #2 page 305. 6. Visit Website: http://everydaymath.org/stude nts.htm	1. Find the median and mean of a data set on Math Masters page 340.	
			1. Create side-by-side bar graphs using Math Masters page 403. 2. Represent rates using line graphs using Math Journal #2 pages 312 & 313. 3. Calculate mammal speeds using Math Masters pages 343 & 344. 4. Test products with	2. Play "Credits/Debits". 3. Solve rate problems for reinforcement using Math Masters page 454. 4. Find unit prices using Math Masters pages 346 & 428. 5. Refer to 5-Minute Math booklet for reinforcement activities. 6. Interpret the	

Learning Expectations & (Related Standard)	Content Outline (Unit/Time)	Activities / Instructional Strategies	Enrichment Options	Reinforcement Options	Assessment Procedures
			Consumer Reports for Kids Online. www.zillions.org 5. Collect follow-up data on eye-blinking rates. 6. Solve mammal heart rate problems and analyze data. 7. Measure air pressure with barometer using Math Masters pages 349-351. 8. Visit Website: http://everydaymath.org/students.htm	remainder activity on Math Masters page 353. 7. Visit Website: http://everydaymath.org/students.htm	