

GLENCOE CORRELATION
MATHSCAPE LEVEL 6
OKLAHOMA
Priority Academic Student Skills
Mathematics Content Standards
Grade 6

CONTENT STANDARDS	PAGE REFERENCES
Standard 1: Algebraic Reasoning - The student will use algebraic methods to describe patterns and simplify algebraic expressions in a variety of contexts.	
1. Extend and create patterns from tables, graphs, rules and number properties and generalize patterns algebraically (e.g., recursive patterns like the Fibonacci numbers, number sequences, prime and composite numbers).	<i>Patterns in Numbers and Shapes</i> SE: 6-7, 8-9, 10-11, 16-17, 26-27, 32-33, 34-35, 36 TG: 16, 20, 26 <i>The Language of Numbers</i> SE: 10-11, 42
2. Use substitution and order of operations to simplify and evaluate algebraic expressions.	<i>Number Powerhouse</i> SE: 8-9, 12-13, 35 TG: 18, 20 <i>Patterns in Numbers and Shapes</i> SE: 18-19 TG: 40, 42
Standard 2: Number Sense - The student will use numbers and number relationships to solve problems.	
1. Add and subtract fractions and mixed numbers to solve problems using a variety of methods (e.g., use fraction strips, find the least common denominator [LCD]).	<i>Number Powerhouse</i> SE: 16-17, 18-19, 20-21, 22-23, 38-41 TG: 34, 36, 40, 48
2. Multiply and divide fractions and mixed numbers to solve problems using a variety of methods.	<i>Number Powerhouse</i> SE: 18-19, 22-23, 39, 41 TG: 40, 44, 48
3. Convert, compare and order decimals (terminating and nonterminating), fractions and percents using a variety of methods.	<i>Gulliver's Worlds</i> SE: 6-7, 18-19, 26-27, 32-33, 35, 38, 43, 45 <i>From Zero to One and Beyond</i> SE: 6-7, 16-17, 18-19, 22-23, 24-25, 31, 35, 36
4. Estimate solutions to single and multi-step problems using whole numbers, decimals, fractions, and percents and assess whether solutions are reasonable (e.g., $7/8 + 8/9$ is about 2, $0.9 + 0.3$ is about 1).	<i>Number Powerhouse</i> SE: 6-7, 18-19, 20-21, 26-27, 34, 37, 43 TG: 14, 16, 46
5. Build and explore multiples and their patterns to develop the concept of exponents.	<i>The Language of Numbers</i> SE: 10-11, 26-27, 28-29, 42-43 TG: 18, 54, 58, 62 <i>From Zero to One and Beyond</i> SE: 32-33, 34-35, 46
6. Simplify numerical expressions with exponents and parentheses using order of operations.	<i>The Language of Numbers</i> SE: 10-11, 12-13, 22-23, 26-27, 29, 35, 36 TG: 12, 13, 18, 20, 48 <i>Number Powerhouse</i> SE: 8-9, 10-11, 12-13, 35, 37

CONTENT STANDARDS	PAGE REFERENCES
Standard 3: Geometry - The student will use geometric properties and relationships to recognize, describe and analyze shapes and representations in a variety of contexts.	
1. Angles	
a. Compare, estimate and determine the measurement of angles.	<i>Designing Spaces</i> SE: 16-17, 18-19, 20-22, 39, 45
b. Find the complement and supplement of an angle.	<i>Designing Spaces</i> SE: 20-21 TG: 44
2. Differentiate between congruent and similar figures.	<i>Designing Spaces</i> SE: 18-19, 20-21, 26-27, 30-31, 38, 40, 45 TG: 40, 42, 44, 46, 58
3. Describe the effect of performing basic transformations on objects and figures in a variety of contexts (e.g., explore reflection [flip] with mirrors, explore rotation [turn] and translation [slide] by designing the layout of different shapes of floor tile).	<i>Designing Spaces</i> SE: 8-9, 10-11, 18-21 TG: 20, 42
Standard 4: Measurement - The student will use measurements within the metric and U.S. customary system to solve problems in a variety of contexts.	
1. Collect data and develop formulas to find the circumference and area of circles (e.g., use string the length of the diameter of various circular lids to approximate the circumference and develop the concept of pi).	<i>Designing Spaces</i> TG: 35 <i>Gulliver's Worlds</i> SE: 8-9, 22-23 TG: 48
2. Compare and convert units within the same measurement system; express conversions using appropriate unit labels (e.g., square inches to square feet, centimeters to millimeters, hours to minutes); and compute measurements of combined units (e.g., 9' 8" + 3' 6" = ?' and ?", 150 minutes = ? hours and ? minutes).	<i>Gulliver's Worlds</i> SE: 18-19, 22-23, 37, 39, 40, 41 TG: 34, 40
3. Find reasonable estimates for measurements using measurements in standard and metric units.	<i>Gulliver's Worlds</i> SE: 10-11, 12-13, 16-17, 20-21 TG: 13, 18, 22, 24, 46
Standard 5: Data Analysis and Statistics - The student will use data analysis and statistics to interpret data in a variety of contexts.	
1. Collect, organize, and interpret data to solve problems (e.g., data from student experiments, tallies, Venn diagrams, tables, circle and bar graphs, spreadsheets).	<i>What Does the Data Say?</i> SE: 6-7, 8-9, 10-11, 14-15, 18-19, 22-23, 40, 41 TG: 14, 22, 24, 42
2. Construct and interpret graphs of statistical data (e.g., explain how different representations lead to different interpretations and may distort information).	<i>What Does the Data Say?</i> SE: 6-7, 8-9, 14-15, 16-17, 18-19, 22-23, 24-25, 26-27, 40, 41, 45 TG: 16, 36, 40, 48, 49, 50
3. Find the median and mode for a set of data in a variety of contexts.	<i>What Does the Data Say?</i> SE: 6-7, 8-9, 30-31, 32-33, 34-35, 36-37, 40, 43 TG: 12, 18, 20, 70, 72