

GLENCOE CORRELATION
MATHEMATICS: APPLICATIONS AND CONCEPTS COURSE 1
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).	SE: 10-13, 14-17, 171 #9, 282-284, 333-336, 366-369 <i>Problem-Solving Strategy</i> 280-281 <i>Web Quest</i> 291 TWE: A 281 B 333 DI 115, 363
2. Use substitution and order of operations to simplify and evaluate algebraic expressions (e.g., if $x = 5$ evaluate $2x + 3$).	SE: 24-27, 28-31, 136 ex 4, 237 #30-31, 263 #29-32, 277 #6, 547 ex 3, 571 ex 2 TWE: A 27 DI 7
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]).	SE: 228-231, 235-238, 244-247 <i>Hands-on Lab</i> 234 <i>The Game Zone</i> 233 TWE: A 247 DI 236
2. Multiply and divide fractions and mixed numbers to solve problems using a variety of methods.	SE: 261-264, 272-275, 409-412, 551-554 <i>Hands-on Lab</i> 259-260, 270-271 TWE: A 267 B 265
3. Convert, compare and order decimals (terminating and nonterminating), fractions and percents using a variety of methods.	SE: 108-110, 198-201, 202-205, 206-209, 400-403, 429 ex 2, 449 #4 TWE: B 108 DI 199, 395, 401
4. Estimate solutions to single and multi-step problems using whole numbers, decimals, fractions, and percents and assess whether solutions are reasonable.	SE: 6-9, 116-119, 130 #7, 137 #52-54, 219-222, 256-258, 415-417 TWE: DI 256, 415 ICE 117
5. Build and explore multiples and their patterns to develop the concept of exponents.	SE: 18-21, 47 #18, 136 ex 5, 138 #36-41, 171 #10 TWE: ICE 19
6. Simplify numerical expressions with exponents and parentheses using order of operations.	SE: 24-27, 29 ex 4, 31 #55-56, 37 #49, 497 TWE: ICE 25

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.	SE: 506-509, 510-512, 515-517, 525 #34-36, 541 #7-9 <i>The Game Zone</i> 519 TWE: DI 507, 510 ICE 507
b. Find the complement and supplement of an angle.	SE: 506-509, 512 #26, 517 #24, 518 #5
2. Differentiate between congruent and similar figures.	SE: 534-536, 540, 541 TWE: DI 534
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).	SE: 528-531, 540 <i>Hands-on Lab</i> 532-533, 537
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).	SE: 161-164, 556-559 TWE: A 559 B 556 DI 162, 557
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" = ?' ?", 150 minutes = ? hours and ? minutes).	SE: 465-468, 470-473, 476-479, 486 ex 5, 490-493, 498-500 <i>Hands-on Lab</i> 474-475 TWE: A 473, 493 B 465, 470
3. Find reasonable estimates for measurements using measurements in standard and metric units.	SE: 465-468, 470-473, 476-479, 484-487 <i>Problem-Solving Strategy</i> 488-489 TWE: B 465
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).	SE: 6-9, 56-59, 66-69, 153 ex 4 <i>Hands-on Lab</i> 32-33, 192-193, 560-561 <i>Problem-Solving Strategy</i> 520-521 <i>Spreadsheet Investigation</i> 60-61 TWE: A 53 DI 54 ICE 55

CONTENT STANDARDS	PAGE REFERENCES
2. Construct and interpret graphs of statistical data (e.g., explain how different representations lead to different interpretations and may distort information).	SE: 50-53, 56-59, 86-89 <i>Hands-on Lab</i> 560-561, 568-569 <i>Problem-Solving Strategy</i> 54-55, 192-193, 448-449 TWE: DI 87 ICE 87
3. Find the median and mode for a set of data in a variety of contexts.	SE: 80-83 TWE: A83

Codes Used for TWE Pages

A Assess
 B Bellringer
 DI Daily Intervention
 ICE In-Class Example