

GLENCOE CORRELATION
CALCULUS
OKLAHOMA
Priority Academic Student Skills
Mathematics Process Standards
High School

PROCESS STANDARDS	PAGE REFERENCES
Process Standard 1: Problem-Solving	
1. Apply a wide variety of problem-solving strategies (identify a pattern, use equivalent representations) to solve problems from within and outside mathematics.	SE: 107-108, 157, 246-247, 414, 538-539, 776-777, 810-811, 940, 1030-1031, 1118-1119
2. Identify the problem from a described situation, determine the necessary data and apply appropriate problem-solving strategies.	SE: 88, 138, 209, 311, 414, 456, 652, 874-875, 942-943, 1110
Process Standard 2: Communication	
1. Use mathematical language and symbols to read and write mathematics and to converse with others.	SE: 194 #1-#4, 218 #1-#4, 316 #1-#4, 449 #1-#4, 509 #1-#4, 673 #1-#4, 715 #1-#4, 784 #1-#2, 902 #1-#4, 1089 #1-#2
2. Demonstrate mathematical ideas orally and in writing.	SE: 89 #1-#4, 160 #1-#4, 249 #1-#4, 462 #1-#4, 585 #1-#2, 602 #1-#2, 934 #1-#4, 991 #1-#4, 1036 #1-#4, 1120 #1-#4
3. Analyze mathematical definitions and discover generalizations through investigations.	SE: 77 #45-#46, 163 #57-#59, 364 #73, 398 #53-#54, 475 #50-#60, 586 #43-#44, 682 #59-#60, 872 #55-#56, 959 #57-#58, 1027 #69-#70
Process Standard 3: Reasoning	
1. Use various types of logical reasoning in mathematical contexts and real-world situations.	SE: 364 #73, 398 #53-#54, 465 #53, 551 #62, 657 #69-#70, 731 #71-#73, 778 #49-#50, 847 #62, 923 #77-#78, 1064 #47-#48
2. Prepare and evaluate suppositions and arguments.	SE: 409 #4, 440 #4, 472 #2, 528 #4, 549-550 #4, 551 #62, 594 #1, 717 #52, 904 #51, 1151 #1
3. Verify conclusions, identify counterexamples, test conjectures, and justify solutions to mathematical problems.	SE: 10-11 #53, 101 #58, 449 #3, 528 #2-#3, 529-530 #41, 559 #2, 567 #50, 585 #1, 767 #2-#4, 1131 #2
4. Justify mathematical statements through proofs.	SE: 10 #52, 101 #58, 339-340, 341 #45, 409 #36, 511 #50, 716 #35, 812 #52, 872 #49-#50, 1027 #65-#67
Process Standard 4: Connections	
1. Link mathematical ideas to the real world (e.g., statistics helps qualify the confidence we can have when drawing conclusions based on a sample).	SE: 1, 81, 149, 241, 321, 401, 479, 555, 621, 721, 787
2. Apply mathematical problem-solving skills to other disciplines.	SE: 209, 212 #41-#46, 246-247, 300, 303, 313-314, 331, 492-493, 795, 879
3. Use mathematics to solve problems encountered in daily life.	SE: 88, 158-159, 226, 246-247, 310, 727-728, 766, 794, 795

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4. Relate one area of mathematics to another and to the integrated whole (e.g., connect equivalent representations to corresponding problem situations or mathematical concepts).	SE: 19-20, 622-636, 893, 1046-1052, 1052-1064, 1064-1071, 1071-1079, 1153-1166
Process Standard 5: Representation	
1. Use algebraic, graphic, and numeric representations to model and interpret mathematical and real-world situations.	SE: 622-636, 684-685, 743, 766, 813 #61 & #63, 881 #37-#42, 895-896, 955-956, 967 #31-#32, 1003-1004 #35
2. Use a variety of mathematical representations as tools for organizing, recording, and communicating mathematical ideas (e.g., mathematical models, tables, graphs, spreadsheets).	SE: 355-356, 392, 487, 597-603, 622-633, 732-745, 822-826, 925, 927, 1124-1126
3. Develop a variety of mathematical representations that can be used flexibly and appropriately.	SE: 350 #51-#52, 425 #43-#44, 465 #53, 536 #55, 604 #49-#50, 665 #52-#53, 739 #45-#46, 826 #81-#82, 904 #51, 967 #33-#34