## GLENCOE CORRELATION CHEMISTRY: MATTER AND CHANGE NEW JERSEY Core Curriculum Content Standards for Science Grade 12

	STANDARDS		PAGE REFERENCES	
STANDARD 5.1 (SCIENTIFIC PROCESSES) ALL STUDENTS WILL DEVELOP PROBLEM-SOLVING, DECISION-MAKING AND INQUIRY SKILLS, REFLECTED BY FORMULATING USABLE QUESTIONS AND HYPOTHESES, PLANNING EXPERIMENTS, CONDUCTING SYSTEMATIC OBSERVATIONS, INTERPRETING AND ANALYZING DATA, DRAWING CONCLUSIONS, AND COMMUNICATING RESULTS.				
	Building upon knowledge and skills gained in the preceding grades, by the end of Grade 12, students:  A. Habits of Mind			
1.		SE:	10-13 Chemistry and Society 80, 482 Chemistry and Technology 768 ChemLab 46-47, 410-411, 550-551 Problem-Solving Lab 130, 191, 583, 860	
2.	Assess the risks and benefits associated with alternative solutions.	SE:	3-6, 828-831 Chemistry and Society 482, 834 Chemistry and Technology 344, 690 Everyday Chemistry 730 Problem-Solving Lab 44, 390, 860	
3.	Engage in collaboration, peer review, and accurate reporting of findings.	SE:	10-15, 36-41, 129-134, 893-896 Chemistry and Society 20, 110 Chemistry and Technology 344, 690, 768 Everyday Chemistry 730	
4.	Explore cases that demonstrate the interdisciplinary nature of the scientific enterprise.	SE:	Chemistry and Society 20, 80, 482 Chemistry and Technology 690, 768 Everyday Chemistry 412 Physics Connection 808 Problem-Solving Lab 647, 679, 860	
B. Inquiry and Problem Solving				
1.	Select and use appropriate instrumentation to design and conduct investigations.	SE:	118-120, 827-828 Problem-Solving Lab 96, 478 ChemLab 480-481, 626-627, 688-689, 796- 797, 832-833, 862-863	
2.	Show that experimental results can lead to new questions and further investigations.	SE:	92-104, 117-126, 151-158 Chemistry and Society 110 ChemLab 78-79, 170-171, 300-301, 520- 521, 626-627, 832-833	
C.	Safety			
1.	Understand, evaluate and practice safe procedures for conducting science investigations.	SE:	14-16 ChemLab 142-143, 300-301, 520-521, 654- 655, 728-729, 832-833 Problem-Solving Lab 60, 390, 830	