

GLENCOE CORRELATION
SCIENCE: AN INTRODUCTION TO
THE LIFE, EARTH, AND PHYSICAL SCIENCES
KANSAS
 Science Standards

STANDARDS	PAGE REFERENCES
STANDARD 1: SCIENCE AS INQUIRY	
As a result of activities in grades 5-8, all students will develop the abilities to do scientific inquiry, be able to demonstrate how scientific inquiry is applied, and develop understandings about scientific inquiry.	
Benchmark 1: The students will demonstrate abilities necessary to do the processes of scientific inquiry.	
Indicators: The students will:	
1. Identify questions that can be answered through scientific investigations.	SE: <i>Activity: Design Your Own Experiment</i> 24-25, 94-95, 160-161, 302-303 TWE: GF 41, 99
2. Design and conduct a scientific investigation.	SE: <i>Activity: Design Your Own Experiment</i> 24-25, 40-41, 78-79, 94-95, 126-127, 160-161, 188-189, 246-247, 280-281, 302-303, 330-331, 356-357, 390-391, 418-419, 450-451, 508-509
3. Use appropriate tools, mathematics, technology, and techniques to gather, analyze, and interpret data.	SE: <i>Activity: Design Your Own Experiment</i> 24-25, 40-41, 246-247, 302-303, 330-331 <i>Activity 71, 271</i> <i>Using Math</i> 164
4. Think critically to identify the relationship between evidence and logical conclusions.	SE: <i>Activity: Design Your Own Experiment</i> 24-25, 40-41, 280-281, 302-303, 330-331 <i>Internet Project</i> 206-207 <i>Activity</i> 226, 326, 444
5. Apply mathematical reasoning to scientific inquiry.	SE: <i>Activity</i> 139, 271, 326 <i>Activity: Design Your Own Experiment</i> 330-331
6. Communicate scientific procedures and explanations.	SE: <i>Problem Solving</i> 76 <i>Activity: Design Your Own Experiment</i> 356-357 TWE: A 41, 95, 161, 257, 303, 391, 509
Benchmark 2: The students will apply different kinds of investigations to different kinds of questions.	
Indicators: The students will:	
1. Differentiate between a qualitative and a quantitative investigation.	SE: <i>Activity</i> 160-161, 246-247, 270-271, 330-331, 356-357 <i>Explore Activity</i> 3, 89, 147, 211, 319 (Note: Many of the <i>Explore Activities</i> are qualitative, and many of the <i>Activities</i> are quantitative in nature.)
2. Develop questions and adapt the inquiry process to guide an investigation.	SE: <i>Activity: Design Your Own Experiment</i> 24-25, 94-95, 160-161, 302-303 TWE: GF 41, 99