

Course SPM0233
Name of Publisher Glencoe/McGraw-Hill
Title of Submission Introduction to Physical Science
Author Ezrailson, et. al.
Copyright Date 2005
ISBN 0078617049, STUDENT ED
*** Price** \$62.00 * Prices effective through October 1, 2006.

Content Area: Science
Grade/Course: SPM0233

Strand	The Scientific Process
Standard 1: The Scientific Process: SCIENTIFIC INVESTIGATION: Discover, invent, and investigate using the skills necessary to engage in the scientific process	

Topic	Scientific Inquiry		Page Reference
Benchmark SC.6.1.1	Formulate a testable hypothesis that can be answered through a controlled experiment		SE: 14-15, 18, 60-61, 124-125, 150-151, 208-209, 300-301, 424-425, 480-481, 540-541
Sample Performance Assessment (SPA)	The student: Constructs a hypothesis (e.g., if, then, and because statement) that is tested through a controlled experiment.		TWE: 14-15, 18, 60-61, 124-125, 150-151, 208-209, 300-301, 424-425, 480-481, 540-541
Rubric			
Advanced	Proficient	Partially Proficient	Novice
Formulate a testable hypothesis with a detailed justification as to how it can be answered through a controlled experiment	Formulate a testable hypothesis with a simple justification that can be answered through a controlled experiment	Formulate a hypothesis without any justification	Formulate an incomplete hypothesis

Course SPM0233
Name of Publisher Glencoe/McGraw-Hill
Title of Submission Introduction to Physical Science
Author Ezrailson, et. al.
Copyright Date 2005
ISBN 0078617049, STUDENT ED
*** Price** \$62.00 * Prices effective through October 1, 2006.

Content Area: Science
Grade/Course: SPM0233

Topic	Scientific Inquiry			Page Reference
Benchmark SC.6.1.2	Use appropriate tools, equipment, and techniques safely to collect, display, and			SE: 15, 19-20, 56-59, 61, 115, 231, 329, 411, 561, 603
Sample Performance Assessment (SPA)	The student: Selects and safely uses appropriate tools, equipment, and techniques to collect, analyze, and display data.			TWE: 15, 19-20, 56-59, 61, 115, 231, 329, 411, 561, 603
Rubric				
Advanced	Proficient	Partially Proficient	Novice	
Consistently select and safely use appropriate tools, equipment, and techniques to collect, display, and analyze data.	Usually select and safely use appropriate tools, equipment, and techniques to collect, display, and analyze data.	Sometimes select and safely use appropriate tools, equipment, and techniques to collect, display, and analyze data.	Rarely select and safely use appropriate tools, equipment, and techniques to collect, display, and analyze data.	

Course SPM0233
Name of Publisher Glencoe/McGraw-Hill
Title of Submission Introduction to Physical Science
Author Ezrailson, et. al.
Copyright Date 2005
ISBN 0078617049, STUDENT ED
*** Price** \$62.00 * Prices effective through October 1, 2006.

Content Area: Science
Grade/Course: SPM0233

Strand	The Scientific Process
Standard 2: The Scientific Process: NATURE OF SCIENCE: Understand that science, technology, and society are interrelated	

Topic	Science, Technology, and Society			Page Reference
Benchmark SC.6.2.1	Explain how technology has an impact on society and science			SE: 11, 272, 332, 426, 526, 530-531, 537-539, 542, 570, 662
Sample Performance Assessment (SPA)	The student: Explains ways in which technology has changed our society and science.			TWE: 11, 272, 332, 426, 526, 530-531, 537-539, 542, 570, 662
Rubric				
Advanced	Proficient	Partially Proficient	Novice	
Explain and provide examples of how technology has an impact on society and science	Explain how technology has an impact on society and science	Give a partial explanation of how technology has an impact on society and science	Recognize that technology has an impact on society and science	

Course SPM0233
Name of Publisher Glencoe/McGraw-Hill
Title of Submission Introduction to Physical Science
Author Ezrailson, et. al.
Copyright Date 2005
ISBN 0078617049, STUDENT ED
*** Price** \$62.00 * Prices effective through October 1, 2006.

Content Area: Science
Grade/Course: SPM0233

Topic		Science, Technology, and Society		Page Reference
Benchmark SC.6.2.2	Explain how the needs of society have influenced the development and use of			SE: 332, 381, 426, 542, 574, 649, 659, 662 TWE: 332, 381, 426, 466, 542, 574, 649, 659, 662
Sample Performance Assessment (SPA)	The student: Describes ways in which the development and use of a specific technology (e.g., wheel, pencil, email, cell phone, satellite) has been influenced by society.			
Rubric				
Advanced	Proficient	Partially Proficient	Novice	
Explain and provide examples of how the needs of society have influenced the development and use of technologies and predict possible developments	Explain how the needs of society have influenced the development and use of technologies	Provide examples of how the needs of society have influenced the development and use of technologies	Recognize that the needs of society have influenced the development and use of technologies	

Course SPM0233
Name of Publisher Glencoe/McGraw-Hill
Title of Submission Introduction to Physical Science
Author Ezrailson, et. al.
Copyright Date 2005
ISBN 0078617049, STUDENT ED
*** Price** \$62.00 * Prices effective through October 1, 2006.

Content Area: Science
Grade/Course: SPM0233

Strand	Life and Environmental Sciences
Standard 3: Life and Environmental Sciences: ORGANISMS AND THE ENVIRONMENT: Understand the unity, diversity, and interrelationships of organisms, including their relationship to cycles of matter and energy in the environment	

Topic	Cycles of Matter and Energy			Page Reference
Benchmark SC.6.3.1	Describe how matter and energy are transferred within and among living systems and their physical environment			SE: 107-108, 109-111, 112-113, 114, 143-144, 145-146, 147-148
Sample Performance Assessment (SPA)	The student: Explains the flow of matter and energy in ecosystems (e.g., the total amount of matter and energy remain constant as they are continuously transferred within and among organisms and their environment).			TWE: 107-108, 109-111, 112-113, 114, 143-144, 145-146, 147-148
Rubric				
Advanced	Proficient	Partially Proficient	Novice	
Compare and describe ways that matter and energy are transferred within and among living systems and their physical environment	Describe how matter and energy are transferred within and among living systems and their physical environment	List ways matter or ways energy is transferred within and among living systems and their physical environment	Recognize that matter or that energy is transferred within and among living systems and their physical environment	

Course SPM0233
Name of Publisher Glencoe/McGraw-Hill
Title of Submission Introduction to Physical Science
Author Ezrailson, et. al.
Copyright Date 2005
ISBN 0078617049, STUDENT ED
*** Price** \$62.00 * Prices effective through October 1, 2006.

Content Area: Science
Grade/Course: SPM0233

Strand	Life and Environmental Sciences
Standard 4: Life and Environmental Sciences: STRUCTURE AND FUNCTION IN ORGANISMS: Understand the structures and functions of living organisms and how organisms can be compared scientifically	

There are no benchmarks for this standard for this Grade/Course.

Strand	Life and Environmental Sciences
Standard 5: Life and Environmental Sciences: DIVERSITY, GENETICS, AND EVOLUTION: Understand genetics and biological evolution and their impact on the unity and diversity of organisms	

There are no benchmarks for this standard for this Grade/Course.

Course SPM0233
Name of Publisher Glencoe/McGraw-Hill
Title of Submission Introduction to Physical Science
Author Ezrailson, et. al.
Copyright Date 2005
ISBN 0078617049, STUDENT ED
*** Price** \$62.00 * Prices effective through October 1, 2006.

Content Area: Science
Grade/Course: SPM0233

Strand	Physical, Earth, and Space Sciences
Standard 6: Physical, Earth, and Space Science: NATURE OF MATTER AND ENERGY: Understand the nature of matter and energy, forms of energy (including waves) and energy transformations, and their significance in understanding the structure of the universe	

Topic	Energy and its Transformation			Page Reference
Benchmark SC.6.6.1	Compare how heat energy can be transferred through conduction, convection, and radiation			SE: 438, 439, 440-441, 442
Sample Performance Assessment (SPA)	The student: Compares how heat energy is transferred and makes comparisons between conduction, convection, and radiation.			TWE: 438, 439, 440-441, 442
Rubric				
Advanced	Proficient	Partially Proficient	Novice	
Describe and compare how heat energy can be transferred through conduction, convection, and radiation and make a connection to real world situations	Compare how heat energy can be transferred through conduction, convection, and radiation	Describe how heat energy can be transferred through conduction, convection, and radiation	Recognize that heat energy can be transferred	

Course SPM0233
Name of Publisher Glencoe/McGraw-Hill
Title of Submission Introduction to Physical Science
Author Ezrailson, et. al.
Copyright Date 2005
ISBN 0078617049, STUDENT ED
*** Price** \$62.00 * Prices effective through October 1, 2006.

Content Area: Science
Grade/Course: SPM0233

Topic	Energy and its Transformation			Page Reference
Benchmark SC.6.6.2	Describe the different types of energy transformations			SE: 379, 380, 381, 382, 383, 384-385, 386, 445, 593
Sample Performance Assessment (SPA)	The student: Describes a variety of energy transformations (e.g., heat energy into mechanical energy; chemical energy into light energy; electrical energy into magnetic energy).			TWE: 379, 380, 381, 382, 383, 384-385, 386, 445, 593
Rubric				
Advanced	Proficient	Partially Proficient	Novice	
Explain the different types of energy transformations and give examples of their application	Describe the different types of energy transformations	Identify, with assistance, different types of energy transformations	Recognize that energy can be transformed	

Course SPM0233
Name of Publisher Glencoe/McGraw-Hill
Title of Submission Introduction to Physical Science
Author Ezrailson, et. al.
Copyright Date 2005
ISBN 0078617049, STUDENT ED
*** Price** \$62.00 * Prices effective through October 1, 2006.

Content Area: Science
Grade/Course: SPM0233

Topic	Energy and its Transformation			Page Reference
Benchmark SC.6.6.3	Explain how energy can change forms and is conserved			SE: 380, 386, 445
Sample Performance Assessment (SPA)	The student: Explains the conservation of energy by comparing the input and output of energy of a specific device or process (e.g., throwing a ball against a wall).			TWE: 380, 386, 445
Rubric				
Advanced	Proficient	Partially Proficient	Novice	
Provide a detailed explanation of the conservation of energy with supporting evidence	Explain how energy can change forms and is conserved	Describe, with assistance, how energy can change forms and is conserved	Recognize that energy is conserved	

Course SPM0233
Name of Publisher Glencoe/McGraw-Hill
Title of Submission Introduction to Physical Science
Author Ezrailson, et. al.
Copyright Date 2005
ISBN 0078617049, STUDENT ED
*** Price** \$62.00 * Prices effective through October 1, 2006.

Content Area: Science
Grade/Course: SPM0233

Topic	Energy and its Transformation			Page Reference
Benchmark SC.6.6.4	Describe and give examples of different types of energy waves			SE: 463-464, 465, 466, 472, 482, 490-491, 526, 527-528, 550-551, 557
Sample Performance Assessment (SPA)	The student: Describes the different types of energy waves (e.g., radio waves, sound waves, light waves) and provides examples of each.			TWE: 463-464, 465, 466, 472, 482, 490-491, 526, 527-528, 550-551, 557
Rubric				
Advanced	Proficient	Partially Proficient	Novice	
Compare and explain the different types of energy waves and provide examples of real world applications	Describe and give examples of the different types of energy waves	Give examples of a few types of energy waves	Select from a given list the different types of energy waves	

Course SPM0233
Name of Publisher Glencoe/McGraw-Hill
Title of Submission Introduction to Physical Science
Author Ezrailson, et. al.
Copyright Date 2005
ISBN 0078617049, STUDENT ED
*** Price** \$62.00 * Prices effective through October 1, 2006.

Content Area: Science
Grade/Course: SPM0233

Topic	Nature of Matter			Page Reference
Benchmark SC.6.6.5	Explain how matter can change physical or chemical forms, but the total amount of matter remains constant			SE: 143-144, 145-146, 147-148, 149
Sample Performance Assessment (SPA)	The student: Describes how matter remains constant before and after physical and chemical changes (e.g., breaking and weathering of rocks, lighting a match).			TWE: 143-144, 145-146, 147-148, 149
Rubric				
Advanced	Proficient	Partially Proficient	Novice	
Explain, in detail and with supporting evidence, the conservation of matter	Explain how matter can change physical or chemical forms, but the total amount of matter remains constant	Define the conservation of matter	Recognize that the amount of matter in a given system is constant	

Course SPM0233
Name of Publisher Glencoe/McGraw-Hill
Title of Submission Introduction to Physical Science
Author Ezrailson, et. al.
Copyright Date 2005
ISBN 0078617049, STUDENT ED
*** Price** \$62.00 * Prices effective through October 1, 2006.

Content Area: Science
Grade/Course: SPM0233

Topic	Nature of Matter			Page Reference
Benchmark SC.6.6.6	Describe and compare the physical and chemical properties of different substances			SE: 109, 134, 137, 138, 140, 141-142, 145, 198, 439, 621-622
Sample Performance Assessment (SPA)	The student: Compares and contrasts physical and chemical properties (e.g., mass, melting point, boiling point, magnetism, conductivity, rusting, reactivity) of different substances (e.g., salts, sugars, elements, acids, bases).			TWE: 109, 134, 137, 138, 140, 141-142, 145, 198, 439, 621-622
Rubric				
Advanced	Proficient	Partially Proficient	Novice	
Classify substances based on the descriptions of their physical and chemical properties and justify the classification system used	Describe and compare the physical and chemical properties of different substances	Identify some physical and chemical properties of substances	Recognize that substances have physical and chemical properties	

Course SPM0233
Name of Publisher Glencoe/McGraw-Hill
Title of Submission Introduction to Physical Science
Author Ezrailson, et. al.
Copyright Date 2005
ISBN 0078617049, STUDENT ED
*** Price** \$62.00 * Prices effective through October 1, 2006.

Content Area: Science
Grade/Course: SPM0233

Topic	Nature of Matter			Page Reference
Benchmark SC.6.6.7	Describe the organization of the periodic table			SE: 81, 83, 84-85, 86, 164, 165, 166-167
Sample Performance Assessment (SPA)	The student: Uses the periodic table to identify patterns of elements (e.g., metals, nonmetals, and inert gases).			TWE: 81, 83, 84-85, 86, 164, 165, 166-167
Rubric				
Advanced	Proficient	Partially Proficient	Novice	
Describe ways matter is organized on the periodic table and use it to provide an example of an element's properties	Describe the organization of the periodic table	Identify basic ways matter is organized on the periodic table	Recognize that matter is organized on the periodic table	

Course SPM0233
Name of Publisher Glencoe/McGraw-Hill
Title of Submission Introduction to Physical Science
Author Ezrailson, et. al.
Copyright Date 2005
ISBN 0078617049, STUDENT ED
*** Price** \$62.00 * Prices effective through October 1, 2006.

Content Area: Science
Grade/Course: SPM0233

Topic	Nature of Matter			Page Reference
Benchmark SC.6.6.8	Recognize changes that indicate that a chemical reaction has taken place			SE: 190, 191, 196, 197, 198, 207
Sample Performance Assessment (SPA)	The student: Observes chemical reactions and identifies the changes (e.g., release of heat, light, gas).			TWE: 190, 191, 196, 197, 198, 207
Rubric				
Advanced	Proficient	Partially Proficient	Novice	
Identify and describe changes that indicate a chemical reaction has taken place	Recognize changes that indicate a chemical reaction has taken place	Identify, with assistance, that a chemical reaction has taken place	Observe chemical reactions	

Course SPM0233
Name of Publisher Glencoe/McGraw-Hill
Title of Submission Introduction to Physical Science
Author Ezrailson, et. al.
Copyright Date 2005
ISBN 0078617049, STUDENT ED
*** Price** \$62.00 * Prices effective through October 1, 2006.

Content Area: Science
Grade/Course: SPM0233

Topic	Nature of Matter			Page Reference
Benchmark SC.6.6.9	Describe matter using the atomic model			SE: 73, 74-75, 76-77, 78-79, 80, 83, 162-163
Sample Performance Assessment (SPA)	The student: Illustrates how matter is made up of atoms which contain protons and neutrons in the nucleus and orbiting electrons.			TWE: 73, 74-75, 76-77, 78-79, 80, 83, 162-163
Rubric				
Advanced	Proficient	Partially Proficient	Novice	
Describe the characteristics of each of the components of an atom and the relationship between them	Describe the basic components of atoms: neutrons, protons, and electrons	Name the basic components of atoms: neutrons, protons, and electrons	Recognize that matter is made of different components	

Course SPM0233
Name of Publisher Glencoe/McGraw-Hill
Title of Submission Introduction to Physical Science
Author Ezrailson, et. al.
Copyright Date 2005
ISBN 0078617049, STUDENT ED
*** Price** \$62.00 * Prices effective through October 1, 2006.

Content Area: Science
Grade/Course: SPM0233

Topic	Waves			Page Reference
Benchmark SC.6.6.10	Explain how vibrations in materials set up wavelike disturbances that spread away from the source			SE: 476-477, 478
Sample Performance Assessment (SPA)	The student: Manipulates models of waves to demonstrate how waves spread away from their sources (e.g., using a water table).			TWE: 476-477, 478
Rubric				
Advanced	Proficient	Partially Proficient	Novice	
Analyze how vibrations in materials set up wavelike disturbances that spread away from the source	Explain how vibrations in materials set up wavelike disturbances that spread away from the source	Describe that vibrations in materials set up wavelike disturbances	Recognize that vibrations in materials set up wavelike disturbances	

Course SPM0233
Name of Publisher Glencoe/McGraw-Hill
Title of Submission Introduction to Physical Science
Author Ezrailson, et. al.
Copyright Date 2005
ISBN 0078617049, STUDENT ED
*** Price** \$62.00 * Prices effective through October 1, 2006.

Content Area: Science
Grade/Course: SPM0233

Strand	Physical, Earth, and Space Sciences
Standard 7: Physical, Earth, and Space Sciences: FORCE AND MOTION: Understand the relationship between force, mass, and motion of objects; and know the major natural forces: gravitational, electric, and magnetic	

Topic	Force and Motion			Page Reference
Benchmark SC.6.7.1	Describe examples of how forces affect an object's motion			SE: 310-311, 312-315, 316-317, 318-319, 320-322, 323-324, 325, 326, 327-328, 329
Sample Performance Assessment (SPA)	The student: Uses Newton's Laws of Motion to describe how forces affect an object's motion (e.g., constant speed in a straight line unless a force is acting upon it).			
Rubric				
Advanced	Proficient	Partially Proficient	Novice	
Explain, with supporting evidence and Newton's Laws, how forces affect an object's motion	Describe examples of how forces affect an object's motion	Identify the forces that affect an object's motion	Identify examples of forces	

Course SPM0233
Name of Publisher Glencoe/McGraw-Hill
Title of Submission Introduction to Physical Science
Author Ezrailson, et. al.
Copyright Date 2005
ISBN 0078617049, STUDENT ED
*** Price** \$62.00 * Prices effective through October 1, 2006.

Content Area: Science
Grade/Course: SPM0233

Topic	Forces of the Universe			Page Reference
Benchmark SC.6.7.2	Explain that electric currents can produce magnetic effects and that magnets can cause electric currents			SE: 614-616, 621-622, 624, 626-627, 631 TWE: 614-616, 621-622, 624, 626-627, 631
Sample Performance Assessment (SPA)	The student: Demonstrates and explains that magnets can produce electric currents and that electric currents produce a magnetic field.			
Rubric				
Advanced	Proficient	Partially Proficient	Novice	
Explain, and provide real world applications, that electric currents can produce magnetic effects and that magnets can cause electric currents	Explain that electric currents can produce magnetic effects, and that magnets can cause electric currents	Describe that electric currents can produce magnetic effects, or that magnets can cause electric currents	Recognize electric currents and magnetic effects	

Strand	Physical, Earth, and Space Sciences
Standard 8: Physical, Earth, and Space Sciences: EARTH AND SPACE SCIENCE: Understand the Earth and its processes, the solar system, and the universe and its contents	

There are no benchmarks for this standard for this Grade/Course.