



Notes:

		Test Proportion				
SUBAREA I—SCIENTIFIC INQUIRY AND THE HISTORY AND NATURE OF SCIENCE		24				
0001	Understand the nature of science and the processes and principles of scientific inquiry.					
0002	Understand procedures for gathering, recording, organizing, interpreting, analyzing, and communicating scientific data and information.					
0003	Understand appropriate safety practices and the selection and proper use of materials, equipment, and technologies in scientific investigations.					
0004	Understand shared concepts, themes, and methods among scientific and other disciplines and the interdependence of science and technology.					
0005	Understand the history of science and the interrelationships of science and society.					
SUBAREA II—LIFE SCIENCE		24				
0006	Understand basic concepts of cell biology.					
0007	Understand the structure, organization, and basic life functions of organisms.					
0008	Understand the role of genetics and evolution in producing diversity in living organisms.					
0009	Understand the role of matter and energy in living systems.					
0010	Understand interactions of organisms with one another and with their environments.					
SUBAREA III—PHYSICAL SCIENCE		28				
0011	Understand the structure and properties of matter.					
0012	Understand physical and chemical changes in matter.					
0013	Understand concepts related to energy and the interactions of energy and matter.					
0014	Understand electricity, magnets, and electromagnetism and their associated fields.					
0015	Understand forces and motion.					
0016	Understand characteristics and behavior of waves, sound, and light.					



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		Test Proportion				
SUBAREA IV—EARTH AND SPACE SCIENCE		24				
0017	Understand the structure and composition of Earth, its history, and the natural processes that shape Earth.					
0018	Understand characteristics of the atmosphere, weather, and climate.					
0019	Understand characteristics of the hydrosphere and the movement of water in the environment.					
0020	Understand interactions among Earth's systems, human use of natural resources, and the effects of natural events and human activity on Earth's systems.					
0021	Understand the structure of the solar system and universe, the types of objects in the universe, and their interactions.					