SIXTH GRADE SCIENCE Content Outline and Pacing Guide 2009-10

Quarter	SOL #	Торіс	*Suggested Timeframe				
1	6.1 a-k	I. Scientific Investigation, Reasoning, and Logic • Observations • Measurement • Density • Experimental design • Plan and conduct investigations • Data collection, analysis and communication					
		9 wks.					
2	6.8 a-i 6.3c	 II. Interrelationships in Earth/Space Systems Organization of the Solar System Role of Gravity Moon phases/ Day-Night Seasons Causes and effects of tides History and technology of space exploration 	9 weeks				
	6.1 a-d	Application of Scientific Investigation, Reasoning, and Logic • Observation • Scale models • classification • Measurement	Integrated				
		Total					
3	6.5 a, b, d, e, f, g	 III. Earth's Fresh and Salt Water Characteristics of water Properties and states of water Origin of water and its occurrence Importance of water Water resources Characteristics of water 	4 weeks				
	6.5 c 6.6 a, g 6.3 c-e	 IV. Weather and Climate Atmosphere Physical and chemical weathering Weather maps Air and Air quality Motion of the atmosphere Cloud formation Weather related phenomena 	5 weeks				

	6.1 e-h	Application of Scientific Investigation, Reasoning, and Logic • Hypothesis development • Testing predictions • Manipulating variables • Collect, record and analyze data	Integrated
		Total	9 wks.
4	6.2 a-e 6.3 a-b	 V. Energy Potential/kinetic energy Role of the sun Non-renewable energy sources Renewable energy source Energy transformations Energy budget 	5 weeks
	6.9 a-d	 VI. Resources Management of renewable resources Management of nonrenewable resources Conservation Land use 	4 weeks
	6.1 i-k	 Application of Scientific Investigation, Reasoning, and Logic Graphical representation Models Reinforce understanding of the nature of science 	Integrated
		Total	9 wks.

2003

Grade Eight Science Test Blueprint Summary Table

Reporting Categories	Number of Items	Grade Six SOL	Life Science SOL	Physical Science SOL
Scientific Investigation	10	6.1a - k	LS.1a-j	PS.1a-n
Force, Motion, Energy, and Matter	15	6.2a, e 6.4a-g 6.5a, b 6.6a		PS.2a-f PS.3 a, b PS.4a-c PS.5a-c PS.6a-c PS.7a-d PS.8a-d PS.9a-c PS.10a-d PS.11a-c
Life Systems*	7		LS.2a-d LS.3a, b LS.4a-c LS.5a-c LS.6a-c LS.13a-g LS.14a	
Ecosystems	7	6.7a-g	LS.7a-d LS.8a, b LS.9a-e LS.10a-c LS.11a-c LS.12a-e	
Earth and Space Systems*	11	6.2b-d 6.3a-e 6.5c-g 6.6b-g 6.8a-i 6.9a-d	LS.14b, c	
SOL Excluded From This Test		None		
Total Number of Operational Items	50			·
Field Test Items** Total Number of Items	10 60			

*Standards from the Resources strand are incorporated in this Reporting Category.

**These field test items will not be used to compute students' scores on the test.