

FCAT SCIENCE CONTENT FOCUS REPORTS ANALYSIS 2004-07 – GRADE 5

* = assessment included a Performance Task Item (short or extended response)

Numbers = number of points possible for that specific content area

Shaded cells = content focus occurring 4-5 times out of the five-year period

Underscored benchmarks = annually assessed

Bolded benchmarks = Pay close attention to these benchmarks that seem to get a lot of focus!

Note that not all benchmarks have been listed since some benchmarks are combined for assessment purposes.

Benchmarks	2004	2005	2006	2007	2008
Physical and Chemical Sciences					
<u>A121</u>	Mass - 1				
<u>A121</u>	Density - 1	Density - 1			Density - 1
<u>A121</u>			Measurement - 1		
<u>A121</u>		Tools - 1		Tools - 1	
<u>A122</u>			Phase changes - 2	Phase changes - 1	
<u>A123</u>		Total weight - 1	Total weight - 2		
<u>A123</u>		Conservation of mass - 1			Conservation of mass - 1
<u>A124</u>	Mixtures - 1				
<u>A124</u>	Solutions - 1	Solutions - 1	Solutions - 1	Solutions - 1	Solutions - 1
<u>A125</u>				Chemical changes - 1	
<u>A221</u>		Microscopic samples - 1		Microscopic samples - 1	Microscopic samples - 1
<u>B121 (MC, SR)</u>	Transfer of energy - 1				Energy transfer - 1
<u>B121</u>		Energy transfer through biotic systems* - 2			
<u>B121</u>		Energy flow through a system - 1	Energy flow through a system - 1	Energy flow through a system - 1	
<u>B122</u>	Heat energy - 1				
		Light energy - 1	Light energy - 1		
<u>B122</u>			Forms of energy - 1		
<u>B122</u>		Energy transformations - 1			
<u>B122</u>				Energy conversions - 1	

<u>B122</u>					Potential energy - 1
B123	Light and heat - 1				
B125		Heat transfer - 1			
B221	Sun's energy - 1				
B221					Sources of energy - 1
C121	Motion - 1			Motion - 1	Motion - 1
C121					Friction - 1
C122				Sound through different media - 1	
C221	Gravity - 1				
C221					Forces - 1
<u>C224 (MC, SR, ER)</u>	Effects of forces* - 2		Effects of forces* - 2	Effect of forces* - 2	
<u>C224</u>	Net force - 1				Net force* - 2
<u>C224</u>		Kinetic energy - 1	Kinetic energy - 1		
<u>C224</u>				Force and motion - 1	
Cluster Totals	13	13	12	12	12

Earth and Space Sciences

D123	Water cycle - 1		Water cycle - 1	Water cycle - 1	
<u>D124 (MC, SR, ER)</u>	Effects of weathering and erosion* - 2				Effects of weathering and erosion* - 4
<u>D124</u>		Changes to Earth's surface* - 4	Changes to Earth's surface* - 5	Changes to Earth's surface* - 5	
<u>D124</u>	Earth's surface - 1			Earth's surface - 1	
<u>D124</u>	Process of weathering - 1		Process of weathering - 1		
<u>D124</u>	Process of erosion - 1				Process of erosion - 1
<u>D124</u>		Erosion - 1			
<u>D124</u>		Deposition - 1	Deposition - 1		
D221			See G223	Conserving natural resources - 2	
D221					Nonrenewable resources - 1
D221					Recycling - 1
<u>E121 (MC, SR)</u>	Seasons - 1			Seasons - 1	

<u>E121</u>	Earth's tilt - 2	Earth's tilt - 1	Earth's tilt - 1	Earth's tilt - 1	Earth's tilt - 2
E122	Moon phases - 2		Moon phases - 1		Moon phases - 1
E123		Solar energy - 2	Solar energy - 1	Solar energy - 2	Solar energy - 1
E124			Planet characteristics - 1		Planet characteristics - 1
E124		Planetary orbits - 1	Planetary orbits - 1		Planetary orbits - 1
E221		Properties of stars - 2	Properties of stars - 1	Properties of stars - 2	Properties of stars - 1
E221		Astronomical distance - 1			
Cluster Totals	11	13	14	15	14
Life and Environmental Sciences					
F121		Body system functions - 1			
F121					Nervous system - 1
F122	Food chains - 1			Food chains - 1	
<u>F123 (MC, SR)</u>	Plants and animals - 1				
<u>F123</u>	Animal characteristics* - 3		Animal characteristics - 1	Animal characteristics - 1	
<u>F123</u>		Mammal characteristics - 1		Mammal characteristics - 1	Mammal characteristics - 1
<u>F123</u>		Plant and animal similarities - 1			
<u>F123</u>			Similar structures* - 2		
<u>F123</u>					Plant characteristics - 1
F124		Plant cell functions - 1	Plant cell functions - 1		Plant cell functions - 1
F221	Inherited traits - 1				
F221		Genetic traits - 2			
F221				Learned behavior - 1	Learned behavior - 1
G121		Energy sources - 1			
G121			Role of organisms - 1		
<u>G122 (MC, SR)</u>	Environmental adaptations - 1		Environmental adaptations - 1		
<u>G122</u>		Animal adaptations for survival* - 3	Animal adaptations for survival - 1	Animal adaptations for survival* - 2	
<u>G122</u>					Structural adaptations - 1
<u>G123 (MC, SR)</u>	Sun's energy - 3				

<u>G123</u>		Photosynthesis - 1	Photosynthesis - 1	Photosynthesis - 2	
<u>G123</u>					Plant growth - 1
<u>G123</u>					Plant structures - 1
<u>G125</u>			Needs of living things - 1		
<u>G126</u>				Decomposers - 1	
<u>G127</u>	Adapting to conditions - 1			Adapting to conditions - 1	Adapting to conditions - 1
<u>G221 (MC, SR)</u>				Behavioral adaptations - 1	
<u>G221</u>					Competition for resources* - 2
<u>G222</u>		Environmental conditions - 1			
<u>G222</u>			Predator/prey relationships - 2		Predator/prey relationships - 1
<u>G223</u>	Habitat changes - 2	Habitat changes - 1		Habitat changes - 1	Habitat changes - 1
<u>G223</u>			Competition for resources - 1		
<u>G223</u>			Conserving natural resources - 1		
Cluster Totals	13	13	13	12	13

Scientific Thinking

<u>H121</u>	Record keeping - 2			Record keeping - 1	Record keeping - 2
<u>H121</u>	Scientific process - 1				Scientific process - 1
<u>H121</u>		Experimental design - 2	Experimental design - 1	Experimental design - 1	
<u>H121</u>		Repetition - 2			
<u>H122 (MC, SR, ER)</u>				Scientific process - 1	
<u>H122</u>	Data collection - 2	Data collection - 2			Data collection - 1
<u>H122</u>	Analysis and communication* - 2				
<u>H122</u>					Analyzing results - 1
<u>H122</u>		Observation - 1	Observation - 1		
<u>H122</u>			Drawing conclusions* -	Drawing conclusions* -	Drawing conclusions* -

			2	2	2
<u>H122</u>			Communicating results - 1		
H125	Understanding models - 1		Understanding models - 2	Understanding models - 2	Understanding models - 1
H221	Predictable events - 1	Predictable events - 1	Predictable events - 2	Predictable events - 2	Predictable events - 1
<u>H321 (MC, SR)</u>	Application of science - 1			Applications of science - 1	Applications of science - 1
<u>H321</u>		Using machines* - 2	Using machines - 1	Using machines - 1	
<u>H321</u>					Inventions - 1
<u>H324 (MC, SR)</u>	Scientific processes - 1				
<u>H324</u>	Effects of technology - 1				
<u>H324</u>		Scientific applications - 2	Scientific applications - 1		
<u>H324</u>			Problem solving - 1	Problem solving - 1	
<u>H324</u>					Experimental design - 1
Cluster Totals	12	12	12	12	12