Note: There are limitations in the use of these reports. To understand their use, please read "How should use of Content Focus Reports be limited?" provided on page 5 of this report.

2012 FCAT 2.0 Science Grade 5		
NGSSS Benchmark	**Content Focus**	**Number of Points Possible**
Reporting Category 1. Nature of Science		
SC.5.N.1.1	Defending conclusions; Evaluating a procedure; Identifying a control group	3
SC.5.N.2.1	Distinguishing between observations and opinions; Explanations based on evidence; Identifying empirical evidence; Testable observations	4
SC.5.N.2.2	Importance of repeated trials; Importance of replication; Reasons for differences in data	3
Reporting Category Point Total		**10**
Reporting Category 2. Earth and Space Science		
SC.4.E.5.4	Appearance of stars	2
SC.4.E.6.2	Mineral properties—hardness	1
SC.4.E.6.3	Renewable v. nonrenewable resources	1
SC.4.E.6.4	Erosion—water	1
SC.5.E.5.1	Star brightness and distance	1
SC.5.E.5.3	Distinguishing between asteroids and comets; Distinguishing between inner and outer planets	2
SC.5.E.7.1	Role of the ocean; Water cycle—condensation; Water cycle—states of matter	4
SC.5.E.7.3	Climate zone—tropical; Distinguishing among forms of precipitation; Weather—humidity; Weather—precipitation	4
Reporting Category Point Total		**16**
Reporting Category 3. Physical Science		
SC.5.P.8.1	Comparing objects—mass; Comparing objects—physical properties; Comparing objects—volume	3
SC.5.P.8.3	Separating mixtures—magnetism; Separating mixtures—particle size	2
SC.5.P.9.1	Changes to water—boiling	1
SC.5.P.10.1	Light and heat relationships; Light behavior—refraction; Pitch	3
SC.5.P.10.2	Sources of energy—air	1
SC.5.P.10.4	Conductors—electric; Electrically charged objects—repulsion; Heat flow	3
SC.5.P.13.1	Forces—gravity; Forces—magnetic	2
SC.5.P.13.2	Motion—change in position	1
Reporting Category Point Total		**16**

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<table>
<tr><th colspan="3">2012 FCAT 2.0 Science
Grade 5</th></tr>
<tr><th>NGSSS Benchmark</th><th>Content Focus</th><th>Number of Points Possible</th></tr>
<tr><td colspan="3">Reporting Category 4. Life Science</td></tr>
<tr><td>SC.3.L.14.1</td><td>Plant structures—flowers; Plant structures—leaves; Seed dispersal</td><td>3</td></tr>
<tr><td>SC.4.L.16.4</td><td>Life cycle—animals</td><td>1</td></tr>
<tr><td>SC.4.L.17.3</td><td>Energy flow through a food chain; How animals obtain energy</td><td>2</td></tr>
<tr><td>SC.5.L.14.1</td><td>Organ functions—skin</td><td>1</td></tr>
<tr><td>SC.5.L.14.2</td><td>Animal classification—invertebrates; Comparing animal structures; Comparing plant structures</td><td>4</td></tr>
<tr><td>SC.5.L.17.1</td><td>Impact on the environment—plants; Physical adaptations—animals; Seasonal changes—animals</td><td>3</td></tr>
<tr><td colspan="2">Reporting Category Point Total</td><td>14</td></tr>
</table>

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	2012 FCAT 2.0 Science Grade 8	
NGSSS Benchmark	**Content Focus**	**Number of Points Possible**
Reporting Category 1. Nature of Science		
SC.6.N.2.2	Evaluating new evidence; Explanations based on evidence; Logical reasoning	3
SC.7.N.1.2	Comparing methods and results; Repetition; Replication	3
SC.7.N.1.5	Models	1
SC.7.N.3.1	Distinguishing between theories and laws	1
SC.8.N.1.1	Evaluating a procedure; Outcome variables; Test variables	3
Reporting Category Point Total		**11**
Reporting Category 2. Earth and Space Science		
SC.6.E.7.4	Atmosphere	1
SC.6.E.7.5	Heat transfer—conduction; Heat transfer—convection	2
SC.7.E.6.2	Coastlines and dunes; Deposition; Rock cycle—erosion	3
SC.7.E.6.4	Fossil records; Law of superposition	2
SC.7.E.6.5	Earthquakes	1
SC.8.E.5.3	Relative distance	1
SC.8.E.5.5	Properties of the sun	1
SC.8.E.5.7	Planetary atmospheres; Properties of planets	2
SC.8.E.5.9	Eclipses	2
Reporting Category Point Total		**15**
Reporting Category 3. Physical Science		
SC.6.P.13.1	Gravitational force; Gravitational force and distance; Magnetic force	3
SC.6.P.13.3	Analyzing position—time graphs	1
SC.7.P.10.1	Electromagnetic spectrum—wavelength	1
SC.7.P.10.3	Light reflection	2
SC.7.P.11.2	Converting potential energy to kinetic energy	1
SC.7.P.11.4	Heat flow	1
SC.8.P.8.4	Density	2
SC.8.P.8.5	Compounds; Particle motion	2
SC.8.P.9.2	Distinguishing between physical and chemical changes; Influence of temperature on chemical change	2
Reporting Category Point Total		**15**

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NGSSS Benchmark	Content Focus	Number of Points Possible
2012 FCAT 2.0 Science Grade 8		
Reporting Category 4. Life Science		
SC.6.L.14.1	Structural organization	1
SC.6.L.14.2	Cellular processes—homeostasis	1
SC.6.L.14.4	Cell membrane	1
SC.6.L.14.5	Circulatory system; Immune system; Infectious agents—viruses	3
SC.6.L.15.1	Kingdom—Fungi	1
SC.7.L.15.2	Causes for extinction	1
SC.7.L.16.1	DNA; Genes; Punnett squares	3
SC.7.L.17.2	Food webs; Limiting factor—food and/or water; Mutualism	3
SC.8.L.18.4	Cellular respiration	1
Reporting Category Point Total		**15**

What is content focus?
"Content focus" is a term that defines the specific content measured by each 2012 FCAT 2.0 test item.

The Next Generation Sunshine State Standards (NGSSS) benchmarks and content foci assessed on the 2012 FCAT 2.0 assessment are not predictive of future FCAT 2.0 content.

How should use of Content Focus Reports be limited?
Content Focus Reports should not be used to make decisions about instruction at the individual student level. Some reporting categories have too few test items to report reliable or meaningful scores at the student level. While well-intended, providing remedial instruction in a specific reporting category may not be justified and may be an inefficient use of instructional time. Content focus data should not be used as sole indicators to determine remedial needs of students.

When interpreting content focus data, the following precautions and information should also be considered:

- The number of items in a reporting category may vary from one year to another. Consequently, users should not compare performance data, such as mean percent correct.
- The number of items in a reporting category will vary by grade level. Consequently, users should not compare content area scores across grade levels.
- The difficulty of the items measuring each benchmark will vary from one year to the next. Consequently, users should not compare content area scores across years.
- The analysis is based on state-level data that are not intended to provide specific classroom, school, or district interpretations.
- Scale score values cannot accurately be determined using Content Focus Reports for a number of reasons. For instance, test scores are generated from students' performance on the entirety of the test, which accounts for the difficulty (also called cognitive complexity) of test items.