

Note: There are limitations in the use of these reports. To understand their use, please read “What cautions should be considered when using Content Focus Reports?” provided on page 3 of this report.

2013 FCAT 2.0 Science Next Generation Sunshine State Standards (NGSSS) Grade 5		
NGSSS Benchmark	Content Focus	Number of Points Possible
Reporting Category 1. Nature of Science		
SC.5.N.1.1	Defending conclusions; Identifying a control group	4
SC.5.N.2.1	Explanations based on evidence; Identifying empirical evidence; Importance of observations	3
SC.5.N.2.2	Importance of repeated trials; 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; Appearance of the Moon; Earth's revolution	3
SC.4.E.6.2	Classifying rocks	1
SC.4.E.6.3	Florida resources; Renewable v. nonrenewable resources	3
SC.4.E.6.4	Weathering—ice	1
SC.5.E.5.1	Components of a galaxy; Energy from stars; Star brightness; Star brightness and distance	4
SC.5.E.5.3	Distinguishing between inner and outer planets; Planet characteristics	2
SC.5.E.7.1	Water cycle—states of matter	1
SC.5.E.7.3	Weather—humidity	1
Reporting Category Point Total		16
Reporting Category 3. Physical Science		
SC.5.P.8.1	Comparing objects—volume	1
SC.5.P.8.3	Dissolving—stirring	1
SC.5.P.9.1	Identifying chemical change	1
SC.5.P.10.1	Heat energy produced by friction; How light travels; Light behavior—refraction; Mechanical energy	4
SC.5.P.10.2	Energy causing a change; Energy causing motion	2
SC.5.P.10.4	Converting electric energy to light energy; Electric circuits; Neutral objects attracted to charged objects	3
SC.5.P.13.1	Forces—friction; Forces—magnetic	2
SC.5.P.13.2	Force and motion relationships; Speed	2
Reporting Category Point Total		16
Reporting Category 4. Life Science		
SC.3.L.14.1	Germination; Plant structures; Seed dispersal	4
SC.4.L.16.4	Comparing insect life cycles	1
SC.4.L.17.3	Energy flow through a food chain; Producers	2
SC.5.L.14.1	Organ functions—intestines	1
SC.5.L.14.2	Animal classification—vertebrates; Animal classification—vertebrates; Comparing animal structures; Comparing plant and animal structures; Plant classification—flowering plants	5
SC.5.L.17.1	Behavioral adaptations	1
Reporting Category Point Total		14

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2013 FCAT 2.0 Science Next Generation Sunshine State Standards (NGSSS) Grade 8		
NGSSS Benchmark	Content Focus	Number of Points Possible
Reporting Category 1. Nature of Science		
SC.6.N.2.2	Explanations based on evidence	1
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	Analyzing data; Controlling experimental variables; Evaluating a procedure; Experiment v. other scientific investigations; Outcome variables	5
Reporting Category Point Total		11
Reporting Category 2. Earth and Space Science		
SC.6.E.7.4	Cryosphere; Ozone layer	2
SC.6.E.7.5	Heat transfer—convection	1
SC.7.E.6.2	Chemical weathering; Human impact—water flow	2
SC.7.E.6.4	Radioactive dating	1
SC.7.E.6.5	Earthquakes	1
SC.8.E.5.3	Astronomical relationships; Relative distance	2
SC.8.E.5.5	Star temperature; Temperature and absolute brightness	2
SC.8.E.5.7	Properties of planets	1
SC.8.E.5.9	Eclipses; Tides	3
Reporting Category Point Total		15
Reporting Category 3. Physical Science		
SC.6.P.13.1	Distinguishing between weight and mass; Gravitational force and mass	2
SC.6.P.13.3	Analyzing position—time graphs	1
SC.7.P.10.1	Electromagnetic spectrum—frequency	1
SC.7.P.10.3	Light refraction	1
SC.7.P.11.2	Converting potential energy to kinetic energy	1
SC.7.P.11.4	Heat flow	2
SC.8.P.8.4	Density	1
SC.8.P.8.5	Mixtures; Particle motion; Solutions	3
SC.8.P.9.2	Distinguishing between physical & chemical changes; Influence of temperature on chemical change; Law of conservation of mass	3
Reporting Category Point Total		15
Reporting Category 4. Life Science		
SC.6.L.14.1	Structural organization	1
SC.6.L.14.2	Cell theory; Cellular processes—homeostasis	2
SC.6.L.14.4	Vacuoles	1
SC.6.L.14.5	Infectious agents—fungi; Infectious agents—viruses	2
SC.6.L.15.1	Kingdom—Fungi	2
SC.7.L.15.2	Theory of evolution—fossil evidence	1
SC.7.L.16.1	Punnett squares	1
SC.7.L.17.2	Comparing relationships; Energy transfer through a food web; Limiting factor—food and/or water	4
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 2013 FCAT 2.0 test item.

The Next Generation Sunshine State Standards (NGSSS) benchmarks and content foci assessed on the 2013 FCAT 2.0 assessment are not predictive of future FCAT 2.0 content.

What cautions should be considered when using Content Focus Reports?

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 cautions 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.

How may content area scores be used?

Guidance on how content area scores may be used by schools and districts is provided on pages 7-8 of [Understanding FCAT 2.0 Assessment Reports, Spring 2013](#) (PDF).