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?" on page 5 of this report.

Spring 2019 Biology 1 End-of-Course (EOC) Assessment Next Generation Sunshine State Standards (NGSSS) Form 1		
NGSSS Benchmark	**Content Focus**	**Number of Points Possible**
Reporting Category 1. Molecular and Cellular Biology		
SC.912.L.14.1	Cell theory and advances in science; Identifying what is science—cell theory	2
SC.912.L.14.3	Cell membrane; Comparing plant and animal cells—vacuoles; General structures—prokaryotic cells	3
SC.912.L.16.3	DNA replication; Gene mutation; Similarities in genetic codes	3
SC.912.L.16.17	Mitosis—metaphase; Role of mitosis—asexual reproduction; Uncontrolled cell growth	3
SC.912.L.18.1	Nucleic acids—primary function; Proteins—primary function	2
SC.912.L.18.9	Cellular respiration—aerobic; Photosynthesis—products; Photosynthesis & cellular respiration relationship	3
SC.912.L.18.12	Properties of water—moderating temperature; Properties of water—solvent	2
SC.912.N.1.1	Analyzing data; Evaluating scientific investigations	2
	Reporting Category Point Total	**20**
Reporting Category 2. Classification, Heredity, and Evolution		
SC.912.L.15.1	Evidence for evolution—observable changes; Theories v. laws—evolution; Trends in hominid evolution—brain size; Trends in hominid evolution—jaw size	4
SC.912.L.15.6	Changes in organism classification; Distinguishing characteristics—Bacteria	2
SC.912.L.15.8	Evaluating scientific claims—origin of life; Scientific explanations for life on Earth	2
SC.912.L.15.13	Increasing genetic variation; Inherited variations	2
SC.912.L.16.1	Codominance; Multiple alleles	2
SC.912.N.1.1	Analyzing data; Making inferences	2
	Reporting Category Point Total	**14**
Reporting Category 3. Organisms, Populations, and Ecosystems		
SC.912.L.14.7	Dermal tissue; Flowers	2
SC.912.L.14.26	Occipital lobe	1
SC.912.L.14.36	Resistance	1
SC.912.L.14.52	Antibiotics; Immune system—specific response; Significance of environmental factors	4
SC.912.L.16.10	Impact of biotechnology—environmental	1
SC.912.L.16.13	Female reproductive organs; Human development fertilization to birth	2
SC.912.L.17.5	Carrying capacity; Changes in ecosystems—climate change; Consequences to biodiversity—nonnative species; Life in aquatic systems—chemistry	4
SC.912.L.17.9	Energy pathways—energy pyramid; Energy pathways—food web	2
SC.912.L.17.20	Costs and benefits—nonrenewable resources; Human impact on environmental systems; Monitoring environmental parameters	3
SC.912.N.1.1	Analyzing data; Evaluating scientific investigations	2
	Reporting Category Point Total	**22**

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Spring 2019 Biology 1 End-of-Course (EOC) Assessment Next Generation Sunshine State Standards (NGSSS) Form 2		
NGSSS Benchmark	**Content Focus**	**Number of Points Possible**
Reporting Category 1. Molecular and Cellular Biology		
SC.912.L.14.1	Cell theory and advances in science; Identifying what is science—cell theory	2
SC.912.L.14.3	Comparing plant and animal cells—chloroplasts; General structures—eukaryotic cells; General structures—prokaryotic cells	3
SC.912.L.16.3	Chromosomal mutation; Gene mutation; Similarities in genetic codes	3
SC.912.L.16.17	Cell cycle—M phase; Role of meiosis—sexual reproduction; Role of mitosis—asexual reproduction	3
SC.912.L.18.1	Biochemical reactions and enzymes; Proteins—molecular structure; Proteins—primary function	3
SC.912.L.18.9	Photosynthesis—products; Role of ATP	2
SC.912.L.18.12	Properties of water—moderating temperature	1
SC.912.N.1.1	Analyzing data; Comparing microscopes—structures; Designing scientific investigations	3
	Reporting Category Point Total	**20**
Reporting Category 2. Classification, Heredity, and Evolution		
SC.912.L.15.1	Evidence for evolution—molecular biology; Identifying what is science—evolution; Theories v. laws—evolution; Trends in hominid evolution—brain size	4
SC.912.L.15.6	Changes in organism classification; Distinguishing characteristics—Animalia	2
SC.912.L.15.8	Scientific explanations for life on Earth	2
SC.912.L.15.13	Gene flow; Increasing genetic variation	2
SC.912.L.16.1	Codominance; Predicting inherited patterns	2
SC.912.N.1.1	Analyzing data; Making inferences	2
	Reporting Category Point Total	**14**
Reporting Category 3. Organisms, Populations, and Ecosystems		
SC.912.L.14.7	Dermal tissue; Plant structures—transpiration	2
SC.912.L.14.26	Brain stem	1
SC.912.L.14.36	Blood viscosity	1
SC.912.L.14.52	Immune system—specific response; Significance of environmental factors; Significance of genetic factors; Vaccines	4
SC.912.L.16.10	Impact of biotechnology—individual	1
SC.912.L.16.13	Female reproductive organs; Human development fertilization to birth	2
SC.912.L.17.5	Carrying capacity; Changes in ecosystems—climate change; Consequences to biodiversity—catastrophic events; Life in aquatic systems—temperature	4
SC.912.L.17.9	Energy pathways—energy pyramid; Energy pathways—food web; Water cycle	3
SC.912.L.17.20	Costs and benefits—nonrenewable resources; Human impact on environmental systems	2
SC.912.N.1.1	Defending conclusions; Evaluating scientific investigations	2
	Reporting Category Point Total	**22**

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Spring 2019 Biology 1 End-of-Course (EOC) Assessment
Next Generation Sunshine State Standards (NGSSS)
Form 3

NGSSS Benchmark	Content Focus	Number of Points Possible
Reporting Category 1. Molecular and Cellular Biology		
SC.912.L.14.1	Cell theory; Cell theory and advances in science; Identifying what is science—cell theory	3
SC.912.L.14.3	General structures—animal cells; General structures—plant cells; General structures—prokaryotic cells	3
SC.912.L.16.3	Chromosomal mutation; Gene mutation; Transcription	3
SC.912.L.16.17	Meiosis I and II—anaphase; Mitosis—metaphase; Role of mitosis—asexual reproduction	3
SC.912.L.18.1	Biochemical reactions and enzymes; Proteins—primary function	2
SC.912.L.18.9	Cellular respiration—reactants; Photosynthesis—products	2
SC.912.L.18.12	Properties of water—freezing; Properties of water—moderating temperature	2
SC.912.N.1.1	Analyzing data	2
	Reporting Category Point Total	**20**
Reporting Category 2. Classification, Heredity, and Evolution		
SC.912.L.15.1	Evaluating scientific claims—evolution; Evidence for evolution—fossil record; Theories v. laws—evolution; Trends in hominid evolution—brain size	4
SC.912.L.15.6	Changes in organism classification; Understanding classification	2
SC.912.L.15.8	Identifying what is science—origin of life; Scientific explanations for life on Earth	2
SC.912.L.15.13	Increasing genetic variation; Inherited variations	2
SC.912.L.16.1	Codominance; Determining genotypes	2
SC.912.N.1.1	Analyzing data; Making inferences	2
	Reporting Category Point Total	**14**
Reporting Category 3. Organisms, Populations, and Ecosystems		
SC.912.L.14.7	Dermal tissue; Plant structures—reproduction	2
SC.912.L.14.26	Frontal lobe	1
SC.912.L.14.36	Exercise	1
SC.912.L.14.52	Antibiotics; Immune system—specific response; Significance of environmental factors; Significance of genetic factors	4
SC.912.L.16.10	Impact of biotechnology—society	1
SC.912.L.16.13	Human development fertilization to birth	1
SC.912.L.17.5	Carrying capacity; Changes in ecosystems—climate change; Consequences to biodiversity—climate change; Life in aquatic systems—depth	4
SC.912.L.17.9	Carbon cycle; Energy pathways—energy pyramid; Energy pathways—food web	3
SC.912.L.17.20	Costs and benefits—nonrenewable resources; Human impact on environmental systems	2
SC.912.N.1.1	Designing scientific investigations; Evaluating scientific investigations; Making inferences	3
	Reporting Category Point Total	**22**

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Spring 2019 Biology 1 End-of-Course (EOC) Assessment Next Generation Sunshine State Standards (NGSSS) Form 4		
NGSSS Benchmark	**Content Focus**	**Number of Points Possible**
Reporting Category 1. Molecular and Cellular Biology		
SC.912.L.14.1	Cell theory; Identifying what is science—cell theory	2
SC.912.L.14.3	Comparing plant and animal cells—mitochondria; General structures—plant cells; General structures—prokaryotic cells	3
SC.912.L.16.3	DNA replication; Gene mutation; Translation	3
SC.912.L.16.17	Meiosis I and II—prophase; Role of mitosis—asexual reproduction; Uncontrolled cell growth	3
SC.912.L.18.1	Nucleic acids—molecular structure; Proteins—primary function	2
SC.912.L.18.9	Cellular respiration; Photosynthesis—products; Photosynthesis & cellular respiration relationship	3
SC.912.L.18.12	Properties of water—cohesive behavior; Properties of water—moderating temperature	2
SC.912.N.1.1	Defending conclusions; Making inferences	2
Reporting Category Point Total		**20**
Reporting Category 2. Classification, Heredity, and Evolution		
SC.912.L.15.1	Evidence for evolution—fossil record; Theories v. laws—evolution; Trends in hominid evolution—brain size	3
SC.912.L.15.6	Changes in organism classification; Understanding classification	2
SC.912.L.15.8	Evaluating sources of information—origin of life; Scientific explanations for life on Earth	2
SC.912.L.15.13	Gene flow; Increasing genetic variation; Overproduction of offspring	3
SC.912.L.16.1	Codominance; Determining genotypes	2
SC.912.N.1.1	Analyzing data; Evaluating scientific investigations	2
Reporting Category Point Total		**14**
Reporting Category 3. Organisms, Populations, and Ecosystems		
SC.912.L.14.7	Dermal tissue; Meristematic tissue; Plant leaves	3
SC.912.L.14.26	Brain stem	1
SC.912.L.14.36	Blood viscosity	1
SC.912.L.14.52	Immune system—specific response; Significance of environmental factors; Significance of pathogenic agents; Vaccines	4
SC.912.L.16.10	Impact of biotechnology—environmental	1
SC.912.L.16.13	Human development fertilization to birth	1
SC.912.L.17.5	Carrying capacity; Changes in ecosystems—climate change; Life in aquatic systems—chemistry; Limiting factors	4
SC.912.L.17.9	Energy pathways—food web	2
SC.912.L.17.20	Costs and benefits—nonrenewable resources; Monitoring environmental parameters	2
SC.912.N.1.1	Analyzing data; Evaluating scientific investigations	3
Reporting Category Point Total		**22**

What is content focus?
"Content focus" is a term that defines the specific content measured by each Spring 2019 Biology 1 EOC Assessment test item.

The Next Generation Sunshine State Standards (NGSSS) benchmarks and content foci assessed on the Spring 2019 Biology 1 EOC Assessment are not predictive of future Biology 1 EOC Assessments.

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.
- Mean content area scores for each test form might be different; therefore, users should not compare content area scores across test forms.
- 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.