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**Spring 2015 Biology 1 End-of-Course (EOC) Assessment  
Next Generation Sunshine State Standards (NGSSS)  
Form 1**

NGSSS Benchmark	Content Focus	Number of Points Possible
<b>Reporting Category 1. Molecular and Cellular Biology</b>		
SC.912.L.14.1	Cell theory and advances in science	2
SC.912.L.14.3	Cell wall; General structures—animal cells; General structures—plant cells	3
SC.912.L.16.3	Gene mutation	2
SC.912.L.16.17	Meiosis I and II—anaphase; Meiosis I and II—prophase; Role of meiosis—sexual reproduction; Role of mitosis—asexual reproduction	4
SC.912.L.18.1	Biochemical reactions and enzymes; Proteins—molecular structure	2
SC.912.L.18.9	Cellular respiration; Photosynthesis	2
SC.912.L.18.12	Properties of water—cohesive behavior; Properties of water—solvent	2
SC.912.N.1.1	Defending conclusions; Designing scientific investigations; Evaluating scientific investigations	3
<b>Reporting Category Point Total</b>		<b>20</b>
<b>Reporting Category 2. Classification, Heredity, and Evolution</b>		
SC.912.L.15.1	Evaluating scientific claims—evolution; Evidence for evolution—biogeography; Evidence for evolution—comparative embryology	3
SC.912.L.15.6	Changes in organism classification; Distinguishing characteristics—Archaea; Distinguishing characteristics—Fungi	3
SC.912.L.15.8	Conditions required for life; Scientific explanations for life on Earth	2
SC.912.L.15.13	Increasing genetic variation; Inherited variations; Overproduction of offspring	3
SC.912.L.16.1	Analyzing patterns of inheritance; Incomplete dominance	2
SC.912.N.1.1	Evaluating scientific investigations	1
<b>Reporting Category Point Total</b>		<b>14</b>
<b>Reporting Category 3. Organisms, Populations, and Ecosystems</b>		
SC.912.L.14.7	Plant structures—photosynthesis	1
SC.912.L.14.26	Brain stem	1
SC.912.L.14.36	Resistance	1
SC.912.L.14.52	Immune system—specific response; Significance of pathogenic agents	2
SC.912.L.16.10	Impact of biotechnology—environmental; Impact of biotechnology—individual	2
SC.912.L.16.13	Human development—first trimester	1
SC.912.L.17.5	Carrying capacity; Changes in ecosystems—climate change; Changes in ecosystems—seasonal variations; Life in aquatic systems—depth; Life in aquatic systems—temperature; Limiting factors	7
SC.912.L.17.9	Energy pathways—energy pyramid; Energy pathways—food web	2
SC.912.L.17.20	Costs and benefits—renewable resources; Human impact on environmental systems	3
SC.912.N.1.1	Analyzing data; Evaluating scientific investigations	2
<b>Reporting Category Point Total</b>		<b>22</b>

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<b>Spring 2015 Biology 1 End-of-Course (EOC) Assessment Next Generation Sunshine State Standards (NGSSS) Form 2</b>		
<b>NGSSS Benchmark</b>	<b>Content Focus</b>	<b>Number of Points Possible</b>
<b>Reporting Category 1. Molecular and Cellular Biology</b>		
SC.912.L.14.1	Cell theory; Cell theory and advances in science	2
SC.912.L.14.3	Comparing plant and animal cells—cell wall; General structures—plant cells	2
SC.912.L.16.3	DNA replication; Gene mutation	2
SC.912.L.16.17	Comparing mitosis and meiosis; Meiosis I and II—prophase; Role of meiosis—sexual reproduction; Role of mitosis—asexual reproduction	4
SC.912.L.18.1	Biochemical reactions and enzymes; Lipids—primary function	2
SC.912.L.18.9	Cellular respiration; Photosynthesis—products	2
SC.912.L.18.12	Properties of water—cohesive behavior; Properties of water—solvent	2
SC.912.N.1.1	Analyzing data; Evaluating scientific explanations; Evaluating scientific investigations; Making inferences	4
<b>Reporting Category Point Total</b>		<b>20</b>
<b>Reporting Category 2. Classification, Heredity, and Evolution</b>		
SC.912.L.15.1	Evaluating scientific claims—evolution; Evidence for evolution—biogeography; Evidence for evolution—comparative anatomy	3
SC.912.L.15.6	Changes in organism classification; Distinguishing characteristics—Plantae	2
SC.912.L.15.8	Scientific explanations for life on Earth	2
SC.912.L.15.13	Increasing genetic variation; Inherited variations; Overproduction of offspring	3
SC.912.L.16.1	Analyzing patterns of inheritance; Codominance	3
SC.912.N.1.1	Defending conclusions	1
<b>Reporting Category Point Total</b>		<b>14</b>
<b>Reporting Category 3. Organisms, Populations, and Ecosystems</b>		
SC.912.L.14.7	Plant structures—photosynthesis; Plant structures—reproduction	2
SC.912.L.14.26	Frontal lobe	1
SC.912.L.14.36	Resistance	1
SC.912.L.14.52	Immune system—nonspecific response; Significance of genetic factors	2
SC.912.L.16.10	Impact of biotechnology—environmental; Impact of biotechnology—individual	2
SC.912.L.16.13	Human development fertilization to birth	1
SC.912.L.17.5	Changes in ecosystems—climate change; Changes in ecosystems—seasonal variations; Consequences to biodiversity—human activity; Life in aquatic systems; Life in aquatic systems—temperature; Limiting factors	6
SC.912.L.17.9	Carbon cycle; Energy pathways—energy pyramid	2
SC.912.L.17.20	Costs and benefits—renewable resources; Human impact on environmental systems	3
SC.912.N.1.1	Defending conclusions; Evaluating scientific investigations	2
<b>Reporting Category Point Total</b>		<b>22</b>

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<b>Spring 2015 Biology 1 End-of-Course (EOC) Assessment Next Generation Sunshine State Standards (NGSSS) Form 3</b>		
NGSSS Benchmark	Content Focus	Number of Points Possible
<b>Reporting Category 1. Molecular and Cellular Biology</b>		
SC.912.L.14.1	Cell theory; Cell theory and advances in science	2
SC.912.L.14.3	Comparing prokaryotic and eukaryotic cells; General structures—plant cells	2
SC.912.L.16.3	Gene mutation	2
SC.912.L.16.17	Comparing mitosis and meiosis; Meiosis I and II—prophase; Role of meiosis—sexual reproduction; Uncontrolled cell growth	4
SC.912.L.18.1	Biochemical reactions and enzymes; Proteins—molecular structure	2
SC.912.L.18.9	Cellular respiration; Photosynthesis and cellular respiration relationship; Role of ATP	3
SC.912.L.18.12	Properties of water—cohesive behavior; Properties of water—freezing	2
SC.912.N.1.1	Analyzing data; Designing scientific investigations; Evaluating scientific investigations	3
<b>Reporting Category Point Total</b>		<b>20</b>
<b>Reporting Category 2. Classification, Heredity, and Evolution</b>		
SC.912.L.15.1	Evaluating scientific claims—evolution; Evidence for evolution—biogeography; Evidence for evolution—molecular biology; Trends in hominid evolution—brain size	4
SC.912.L.15.6	Changes in organism classification; Understanding classification	2
SC.912.L.15.8	Evaluating sources of info—origins of life; Scientific explanations for life on Earth	2
SC.912.L.15.13	Increasing genetic variation; Nonrandom mating; Overproduction of offspring	3
SC.912.L.16.1	Analyzing patterns of inheritance; Multiple alleles	2
SC.912.N.1.1	Defending conclusions	1
<b>Reporting Category Point Total</b>		<b>14</b>
<b>Reporting Category 3. Organisms, Populations, and Ecosystems</b>		
SC.912.L.14.7	Plant leaves; Plant stems	2
SC.912.L.14.26	Occipital lobe	1
SC.912.L.14.36	Resistance	1
SC.912.L.14.52	Significance of genetic factors; Vaccines	2
SC.912.L.16.10	Impact of biotechnology—environmental; Impact of biotechnology—individual	2
SC.912.L.16.13	Male reproductive organs	1
SC.912.L.17.5	Carrying capacity; Changes in ecosystems—climate change; Changes in ecosystems—seasonal variations; Life in aquatic systems—temperature; Limiting factors	5
SC.912.L.17.9	Energy pathways—energy pyramid; Energy pathways—food web	2
SC.912.L.17.20	Costs and benefits—renewable resources; Human impact on environmental systems; Monitoring environmental parameters	3
SC.912.N.1.1	Analyzing data; Evaluating scientific investigations	3
<b>Reporting Category Point Total</b>		<b>22</b>

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<b>Spring 2015 Biology 1 End-of-Course (EOC) Assessment Next Generation Sunshine State Standards (NGSSS) Form 4</b>		
<b>NGSSS Benchmark</b>	<b>Content Focus</b>	<b>Number of Points Possible</b>
<b>Reporting Category 1. Molecular and Cellular Biology</b>		
SC.912.L.14.1	Cell theory; Cell theory and advances in science	2
SC.912.L.14.3	Cell membrane; Comparing prokaryotic and eukaryotic cells; General structures—plant cells	3
SC.912.L.16.3	DNA replication; Gene mutation; Similarities in genetic codes	3
SC.912.L.16.17	Mitosis—anaphase; Role of meiosis—sexual reproduction; Role of mitosis—asexual reproduction; Uncontrolled cell growth	4
SC.912.L.18.1	Biochemical reactions and enzymes; Nucleic acids—primary function	2
SC.912.L.18.9	Cellular respiration	1
SC.912.L.18.12	Properties of water—cohesive behavior; Properties of water—solvent	2
SC.912.N.1.1	Defending conclusions; Designing scientific investigations; Evaluating scientific investigations	3
<b>Reporting Category Point Total</b>		<b>20</b>
<b>Reporting Category 2. Classification, Heredity, and Evolution</b>		
SC.912.L.15.1	Evaluating scientific claims—evolution; Evidence for evolution—biogeography; Evidence for evolution—observable changes; Identifying what is science—evolution	4
SC.912.L.15.6	Changes in organism classification; Understanding classification	2
SC.912.L.15.8	Scientific explanations for life on Earth	1
SC.912.L.15.13	Gene flow; Increasing genetic variation; Overproduction of offspring	3
SC.912.L.16.1	Analyzing patterns of inheritance; Multiple alleles	2
SC.912.N.1.1	Analyzing data; Evaluating scientific investigations	2
<b>Reporting Category Point Total</b>		<b>14</b>
<b>Reporting Category 3. Organisms, Populations, and Ecosystems</b>		
SC.912.L.14.7	Cones	1
SC.912.L.14.26	Frontal lobe	1
SC.912.L.14.36	Exercise; Resistance	2
SC.912.L.14.52	Immune system—specific response; Vaccines	2
SC.912.L.16.10	Impact of biotechnology—individual; Impact of biotechnology—society	2
SC.912.L.16.13	Female reproductive organs	1
SC.912.L.17.5	Changes in ecosystems—climate change; Changes in ecosystems—seasonal variations; Life in aquatic systems—temperature; Limiting factors	5
SC.912.L.17.9	Energy pathways—energy pyramid; Energy pathways—food web	2
SC.912.L.17.20	Costs and benefits—renewable resources; Human impact on environmental systems; Monitoring environmental parameters; Using renewable resources	4
SC.912.N.1.1	Analyzing data; Evaluating scientific investigations	2
<b>Reporting Category Point Total</b>		<b>22</b>

***What is content focus?***

"Content focus" is a term that defines the specific content measured by each Spring 2015 Biology 1 EOC Assessment test item.

**The Next Generation Sunshine State Standards (NGSSS) benchmarks and content foci assessed on the Spring 2015 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.

***How may content area scores be used?***

Guidance on how content area scores may be used by schools and districts is provided on pages 11-12 of [Understanding Florida End-of-Course Assessment Reports, Spring 2015](#) (PDF).