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**Spring 2017 Biology 1 End-of-Course (EOC) Assessment  
Next Generation Sunshine State Standards (NGSSS)  
Form 1**

| <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; Evaluating scientific claims—cell theory   | 2                                |
| SC.912.L.14.3  | Cell membrane; Comparing plant and animal cells—common structures;<br>Comparing plant and animal cells—mitochondria;<br>General structures—eukaryotic cells | 4                                |
| SC.912.L.16.3  | DNA replication; Gene mutation; Similarities in genetic codes   | 3                                |
| SC.912.L.16.17   | Cell cycle—M phase; Role of mitosis—asexual reproduction; Uncontrolled cell growth  | 3                                |
| SC.912.L.18.1  | Biochemical reactions and enzymes; Carbohydrates—primary function;<br>Nucleic acids—primary function  | 3                                |
| SC.912.L.18.9  | Photosynthesis—reactants  | 1                                |
| SC.912.L.18.12   | Properties of water—freezing  | 1                                |
| SC.912.N.1.1   | Analyzing data; Comparing microscopes—structures; Defending conclusions   | 3                                |
| <b>Reporting Category Point Total</b>                                |   | <b>20</b>                        |
| <b>Reporting Category 2. Classification, Heredity, and Evolution</b> |   |                                  |
| SC.912.L.15.1  | Evidence for evolution—molecular biology; Identifying what is science—<br>evolution; Trends in hominid evolution—skull shape                                | 3                                |
| SC.912.L.15.6  | Changes in organism classification; Distinguishing characteristics—Fungi;<br>Distinguishing characteristics—Plantae; Understanding classification           | 4                                |
| SC.912.L.15.8  | Evaluating scientific claims—origin of life; Evaluating sources of info—origins<br>of life; Scientific explanations for life on Earth                       | 3                                |
| SC.912.L.15.13   | Nonrandom mating; Overproduction of offspring   | 2                                |
| SC.912.L.16.1  | Codominance   | 1                                |
| SC.912.N.1.1   | Analyzing data  | 1                                |
| <b>Reporting Category Point Total</b>                                |   | <b>14</b>                        |
| <b>Reporting Category 3. Organisms, Populations, and Ecosystems</b>  |   |                                  |
| SC.912.L.14.7  | Flowers; Plant roots  | 2                                |
| SC.912.L.14.26   | Cerebrum  | 1                                |
| SC.912.L.14.36   | Blood viscosity   | 1                                |
| SC.912.L.14.52   | Immune system—function; Significance of environmental factors   | 2                                |
| SC.912.L.16.10   | Impact of biotechnology—environmental; Impact of biotechnology—society  | 2                                |
| SC.912.L.16.13   | Human development—fertilization to birth; Male reproductive organs  | 2                                |
| SC.912.L.17.5  | Changes in ecosystems—succession; Consequences to biodiversity—catastrophic<br>events; Life in aquatic systems—geography; Limiting factors                  | 4                                |
| SC.912.L.17.9  | Carbon cycle; Energy pathways—energy pyramid  | 2                                |
| SC.912.L.17.20   | Human impact on environmental systems   | 1                                |
| SC.912.N.1.1   | Analyzing data; Designing scientific investigations; Evaluating scientific<br>investigations; Making inferences   | 5                                |
| <b>Reporting Category Point Total</b>                                |   | <b>22</b>                        |

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**Spring 2017 Biology 1 End-of-Course (EOC) Assessment  
Next Generation Sunshine State Standards (NGSSS)  
Form 2**

| <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 and advances in science; Evaluating scientific claims—cell theory   | 2                                |
| SC.912.L.14.3  | Cell wall; Comparing plant and animal cells—chloroplasts;<br>General structures—eukaryotic cells  | 3                                |
| SC.912.L.16.3  | Chromosomal mutation; DNA replication; Transcription  | 3                                |
| SC.912.L.16.17   | Cell cycle—M phase; Role of mitosis—asexual reproduction;<br>Uncontrolled cell growth   | 3                                |
| SC.912.L.18.1  | Carbohydrates—primary function; Effect of environmental factors—enzyme activity   | 2                                |
| SC.912.L.18.9  | Cellular respiration; Photosynthesis and cellular respiration relationship  | 2                                |
| SC.912.L.18.12   | Properties of water—cohesive behavior   | 1                                |
| SC.912.N.1.1   | Analyzing data; Defending conclusions; Designing scientific investigations;<br>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  | Evidence for evolution—comparative embryology; Identifying what is science—<br>evolution; Trends in hominid evolution—skull shape                 | 3                                |
| SC.912.L.15.6  | Changes in organism classification; Distinguishing characteristics—Eukarya;<br>Distinguishing characteristics—Fungi; Understanding classification | 4                                |
| 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; Inherited variations  | 2                                |
| SC.912.L.16.1  | Codominance; Incomplete dominance   | 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 roots; Seeds  | 2                                |
| SC.912.L.14.26   | Frontal lobe  | 1                                |
| SC.912.L.14.36   | Blood viscosity   | 1                                |
| SC.912.L.14.52   | Immune system—specific response; Significance of environmental factors  | 2                                |
| SC.912.L.16.10   | Impact of biotechnology—individual; Impact of biotechnology—society   | 2                                |
| SC.912.L.16.13   | Female reproductive organs; Human development fertilization to birth  | 2                                |
| SC.912.L.17.5  | Carrying capacity; Changes in ecosystems—succession; Consequences to<br>biodiversity—human activity; Life in aquatic systems—depth                | 4                                |
| SC.912.L.17.9  | Energy pathways—energy pyramid; Water cycle   | 2                                |
| SC.912.L.17.20   | Costs and benefits—nonrenewable resources; Human impact on environmental systems  | 2                                |
| SC.912.N.1.1   | Analyzing data; Defending conclusions; Designing scientific investigations;<br>Evaluating scientific investigations                               | 4                                |
| <b>Reporting Category Point Total</b>                                |   | <b>22</b>                        |

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| <b>Spring 2017 Biology 1 End-of-Course (EOC) Assessment<br/>Next Generation Sunshine State Standards (NGSSS)<br/>Form 3</b> |   |                                      |
|---|---|--------------------------------------|
| <b>NGSSS<br/>Benchmark</b>  | <b>Content Focus</b>  | <b>Number of<br/>Points Possible</b> |
| <b>Reporting Category 1. Molecular and Cellular Biology</b>   |   |                                      |
| SC.912.L.14.1   | Cell theory and advances in science; evaluating scientific claims—cell theory   | 3                                    |
| SC.912.L.14.3   | Cell wall; Comparing plant and animal cells—vacuoles;<br>General structures—eukaryotic cells  | 3                                    |
| SC.912.L.16.3   | Chromosomal mutation; DNA replication; Translation  | 3                                    |
| SC.912.L.16.17  | Cell cycle—M phase; Meiosis I and II—anaphase; Role of mitosis—asexual<br>reproduction; Uncontrolled cell growth                                  | 4                                    |
| SC.912.L.18.1   | Carbohydrates—primary function; Proteins—molecular structure  | 2                                    |
| SC.912.L.18.9   | Photosynthesis and cellular respiration relationship; Role of ATP   | 2                                    |
| SC.912.L.18.12  | Properties of water—freezing  | 1                                    |
| SC.912.N.1.1  | Analyzing data; Defending conclusions   | 2                                    |
| <b>Reporting Category Point Total</b>   |   | <b>20</b>                            |
| <b>Reporting Category 2. Classification, Heredity, and Evolution</b>  |   |                                      |
| SC.912.L.15.1   | Evidence for evolution—molecular biology; Identifying what is<br>science—evolution; Trends in hominid evolution—skull shape                       | 3                                    |
| SC.912.L.15.6   | Changes in organism classification; Distinguishing characteristics—Eukarya;<br>Distinguishing characteristics—Fungi; Understanding classification | 4                                    |
| SC.912.L.15.8   | Evaluating sources of info—origins of life; Scientific explanations for life on Earth   | 2                                    |
| SC.912.L.15.13  | Gene flow; Overproduction of offspring  | 2                                    |
| SC.912.L.16.1   | Codominance; Predicting inherited patterns  | 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   | Flowers; Plant roots; Plant stems   | 3                                    |
| SC.912.L.14.26  | Cerebrum  | 1                                    |
| SC.912.L.14.36  | Blood viscosity; Resistance   | 2                                    |
| SC.912.L.14.52  | Significance of environmental factors; Significance of genetic factors  | 2                                    |
| SC.912.L.16.10  | Impact of biotechnology—environmental; Impact of biotechnology—society  | 2                                    |
| SC.912.L.16.13  | Human development fertilization to birth  | 1                                    |
| SC.912.L.17.5   | Changes in ecosystems—succession; Consequences to biodiversity—nonnative<br>species; Life in aquatic systems—salinity; Limiting factors           | 4                                    |
| SC.912.L.17.9   | Energy pathways—energy pyramid; Energy pathways—food web  | 2                                    |
| SC.912.L.17.20  | Evaluating scientific claims—environment; Human impact on environmental systems   | 2                                    |
| SC.912.N.1.1  | Analyzing data; Designing scientific investigations;<br>Evaluating scientific investigations  | 3                                    |
| <b>Reporting Category Point Total</b>   |   | <b>22</b>                            |

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| <b>Spring 2017 Biology 1 End-of-Course (EOC) Assessment<br/>Next Generation Sunshine State Standards (NGSSS)<br/>Form 4</b> |  |                                      |
|---|--|--------------------------------------|
| <b>NGSSS<br/>Benchmark</b>  | <b>Content Focus</b>   | <b>Number of<br/>Points Possible</b> |
| <b>Reporting Category 1. Molecular and Cellular Biology</b>   |  |                                      |
| SC.912.L.14.1   | Evaluating scientific claims—cell theory; Identifying what is science—cell theory; Theories v. laws—cell theory  | 3                                    |
| SC.912.L.14.3   | Comparing plant and animal cells—chloroplasts; Comparing prokaryotic and eukaryotic cells; General structures—eukaryotic cells                                 | 3                                    |
| SC.912.L.16.3   | DNA replication; Similarities in genetic codes; Translation  | 3                                    |
| SC.912.L.16.17  | Cell cycle—M phase; Meiosis I and II—prophase; Role of mitosis—asexual reproduction; Uncontrolled cell growth  | 4                                    |
| SC.912.L.18.1   | Carbohydrates—primary function; Effect of environmental factors—enzyme activity  | 2                                    |
| SC.912.L.18.9   | Cellular respiration—anaerobic; Role of ATP  | 2                                    |
| SC.912.L.18.12  | Properties of water—cohesive behavior  | 1                                    |
| SC.912.N.1.1  | Analyzing data; Evaluating scientific investigations   | 2                                    |
| <b>Reporting Category Point Total</b>   |  | <b>20</b>                            |
| <b>Reporting Category 2. Classification, Heredity, and Evolution</b>  |  |                                      |
| SC.912.L.15.1   | Evidence for evolution—fossil record; Evidence for evolution—molecular biology; Identifying what is science—evolution; Trends in hominid evolution—skull shape | 4                                    |
| SC.912.L.15.6   | Changes in organism classification; Distinguishing characteristics—Fungi; Understanding classification   | 3                                    |
| SC.912.L.15.8   | Evaluating sources of info—origin of life; Scientific explanations for life on Earth   | 2                                    |
| SC.912.L.15.13  | Genetic drift; Overproduction of offspring   | 2                                    |
| SC.912.L.16.1   | Codominance; Sex-linked inheritance  | 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 roots  | 2                                    |
| SC.912.L.14.26  | Occipital lobe   | 1                                    |
| SC.912.L.14.36  | Blood viscosity; Exercise  | 2                                    |
| SC.912.L.14.52  | Significance of environmental factors; Vaccines  | 2                                    |
| SC.912.L.16.10  | Impact of biotechnology—individual; Impact of biotechnology—society  | 2                                    |
| SC.912.L.16.13  | Human development fertilization to birth   | 1                                    |
| SC.912.L.17.5   | Carrying capacity; Changes in ecosystems—succession; Consequences to biodiversity—human activity; Life in aquatic systems—light                                | 4                                    |
| SC.912.L.17.9   | Energy pathways—energy pyramid; Energy pathways—food web   | 2                                    |
| SC.912.L.17.20  | Human impact on environmental systems; Monitoring environmental parameters   | 2                                    |
| SC.912.N.1.1  | Analyzing data; Designing scientific investigations; Evaluating scientific investigations  | 4                                    |
| <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 2017 Biology 1 EOC Assessment test item.

**The Next Generation Sunshine State Standards (NGSSS) benchmarks and content foci assessed on the Spring 2017 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.