# Understanding NGSSS Reports Grades 5 & 8 Science and End-of-Course Assessments Spring 2017



# **Table of Contents**

Table of Contents	2
Introduction	4
Statewide Science Assessment Introduction	
Purpose of the Statewide Science Assessment	
Subjects/Grade Levels Tested in 2017	
Testing Format	
Question Formats	
Statewide Science Assessment Scores	4
Statewide Science Assessment Scores	5
Student Progression and Passing Score Requirements for the Statewide Science Assessment	5
Achievement Levels	5
Statewide Science Assessment Student, School, District, and State Reports	<i>6</i>
Codes for No Data Reported	6
Statewide Science Assessment Individual Student Report	7
Performance Level Indicators	8
Statewide Science Assessment School Report of Students	g
Statewide Science Assessment State and District Reports of Results	11
Statewide Science Assessment Reporting Categories	13
Statewide Science Assessment Reporting Categories	13
Grade 5	
Grade 8	13
NGSSS EOC Introduction	15
Purpose of the NGSSS EOC Assessments	15
Students Tested in 2016–17	15
Biology 1 EOC Assessment	15
Civics EOC Assessment	15
U.S. History EOC Assessment	16
All NGSSS EOC Assessments	16
2016–17 Test Administration Schedule	16
NGSSS EOC Assessments Test Design	16
Test Sessions	16
Testing Format	
Question Formats	17

2017 NGSSS EOC Assessment Forms	17
NGSSS EOC Assessment Scores	19
Achievement Levels	19
Equating	19
Reporting Category Scores	20
NGSSS EOC Assessment Student, School, District, and State Reports	21
Codes for No Data Reported	22
Biology 1, Civics, and U.S. History EOC Assessments Individual Student Reports	23
Biology 1, Civics, and U.S. History EOC Assessments School Report of Students	25
Biology 1, Civics, and U.S. History EOC Assessments State and District Reports of Results	27
NGSSS EOC Reporting Categories	29
Biology 1 EOC Assessment Reporting Categories	29
Civics EOC Assessment Reporting Categories	29
U.S. History EOC Assessment Reporting Categories	30
Glossary	31

# Introduction

This booklet has been prepared to help you understand the reports for the Statewide Science Assessment and the **Next Generation Sunshine State Standards (NGSSS)** End-of-Course (EOC) assessments. It includes explanations of the reports, a glossary of the terms used in these reports, and information about the NGSSS content assessed on these tests. The explanations provided for the sample reports apply to both grade 5 and grade 8 Statewide Science Assessments and NGSSS EOC assessments except where otherwise noted.

Note: Terms defined in the glossary (located on pages 31–32) are cross-referenced and appear in **bold text** the first time they are referenced in a paragraph.

# Statewide Science Assessment Introduction

#### **Purpose of the Statewide Science Assessment**

The Statewide Science Assessment measures student achievement of the NGSSS in science.

#### **Subjects/Grade Levels Tested in 2017**

Statewide Science Assessment—Grades 5 and 8

Most students, including English language learner (ELL) and exceptional student education (ESE) students, enrolled in the tested grade levels participated in the Statewide Science Assessment administration. Administration accommodations were provided to eligible ELL and ESE students.

Note: In accordance with Section 1008.22(3)(a), Florida Statutes (F.S.), "The statewide, standardized Science assessment shall be administered annually at least once at the elementary and middle grades levels."

#### **Testing Format**

The Statewide Science Assessment is a paper-based test.

Accommodated test forms (e.g., large print, braille, and one-item-per-page) were provided for students with disabilities who required allowable accommodations, as specified in their Individual Educational Plans (IEPs) or Section 504 plans.

#### **Question Formats**

**Multiple-choice** questions appear on the grades 5 and 8 Statewide Science Assessments. Students choose the best answer from four answer choices.

# Statewide Science Assessment Scores

Statewide Science Assessment results are reported at the student, school, district, and state levels. <u>Table 2</u> provides a list of Statewide Science Assessment reports, the grade levels at which each report is provided, and the page number on which each type of report is described. Information about Statewide Science Assessment scores and reports is also available on the Statewide Science Assessment website at <a href="http://www.fldoe.org/accountability/assessments/k-12-student-assessment/science.stml">http://www.fldoe.org/accountability/assessments/k-12-student-assessment/science.stml</a>.

#### Statewide Science Assessment Scores

The Statewide Science Assessment scale scores range from 140 to 260 for both grades 5 and 8. The scale score ranges for each Statewide Science Assessment Achievement Level is provided in Table 1 below.

#### Student Progression and Passing Score Requirements for the Statewide Science Assessment

Pursuant to Senate Bill 1076, which was passed during the 2013 legislative session, the State Board of Education established passing scores for each Statewide Science Assessment on January 21, 2014. The passing score on the Statewide Science Assessment is the minimum score in **Achievement Level** 3. These passing standards are consistent with the current proficiency standards used for Florida's accountability system.

#### **Achievement Levels**

**Achievement Levels** (also called Performance Levels) describe the level of success a student has achieved with the content assessed. Achievement Levels range from 1 (lowest) to 5 (highest). The State Board has established the minimum score in Achievement Level 3 as the passing score for all Statewide Science assessments. As Level 3 indicates satisfactory performance, to be considered on grade level, students must achieve Level 3 or higher.

The following **Achievement Level** Policy Definitions apply to the Statewide Science Assessment:

- **Level 5** Students at this level demonstrate mastery of the most challenging content of the *Next Generation Sunshine State Standards*.
- **Level 4** Students at this level demonstrate proficiency with the challenging content of the *Next Generation Sunshine State Standards*.
- **Level 3** Students at this level demonstrate a satisfactory level of mastery with the challenging content of the *Next Generation Sunshine State Standards*.
- **Level 2** Students at this level demonstrate a below satisfactory level of mastery with the challenging content of the *Next Generation Sunshine State Standards*.
- **Level 1** Students at this level demonstrate an inadequate level of mastery with the challenging content of the *Next Generation Sunshine State Standards*.

Table 1 provides the scale score range for each **Achievement Level** for the Statewide Science Assessment.

Table 1: Achievement Levels for the Statewide Science Assessment Scale Scores (140–260)

Grade	Level 1	Level 2	Level 3	Level 4	Level 5
5	140–184	185–199	200–214	215–224	225–260
8	140-184	185–202	203–214	215–224	225-260

Content area scores are the actual number of questions answered correctly within each **reporting category**. These scores are also known as raw scores. Reporting categories represent groups of similar skills, or **benchmarks**, which are assessed within each grade and subject. The **state mean** for each reporting category is also provided to allow for comparisons to average performance statewide.

## Statewide Science Assessment Student, School, District, and State Reports

**Table 2: Statewide Science Reports** 

Report Type	Grades	Page of Report Description		
Student Reports				
Science Individual Student Report	5 and 8	<u>7–8</u>		
School Reports				
Science School Report of Students	5 and 8	<u>9–10</u>		
District Reports				
Science District Report of Schools	5 and 8	<u>11–12</u>		
Science District Summary	5 and 8	<u>11–12</u>		
State Reports				
Science State Report of Districts	5 and 8	<u>11–12</u>		
Science State Summary	5 and 8	<u>11–12</u>		

#### **Codes for No Data Reported**

The following abbreviations may appear on some student-level educator reports.

**NT** (Not Tested) indicates that no data are reported for the student because he or she was not tested for that subject.

**NR** (Not Reported) indicates that no data are reported for the student. Reports containing student results will indicate that no data are reported for one of the following reasons:

- NR2—Did Not Meet Attemptedness Criteria
- NR3—Marked Do Not Score
- NR5—Off-Grade Tester
- NR6—Duplicate Record
- NR7—FDOE Hold
- NR8—Caveon Invalidated

If a student receives an NR code, the parent or student should consult the student's designated guidance counselor.

**NA** (Not Available) indicates that data are not reported for the student because no data were available or that the data do not apply at that grade level.

A dash (—) on the student, school, district, or state level reports appears when data are suppressed. To provide meaningful results and to protect the privacy of individual students, no data are reported if the number of students is less than ten. If all students would be reported in the same **Achievement Level**, the data are suppressed, with the exception that the totaled percentage of levels 3–5 is reported on summary educator reports.

## Statewide Science Assessment Individual Student Report



The format shown above is used for the Statewide Science Assessment Individual Student Report, which is a one-page report. This report provides the student's results and important information about the test. The information is translated into Spanish and Haitian Creole.

- **1 Top of Report:** The test, student, school, and district are identified on the top of the report. The "Purpose of This Report" explains important information for parents regarding the test and their student's score.
- **2 Performance Level and Scale Score:** An icon displays the student's performance level. Next to the icon, a statement provides further information regarding the performance level and charts the scale score on a graph.

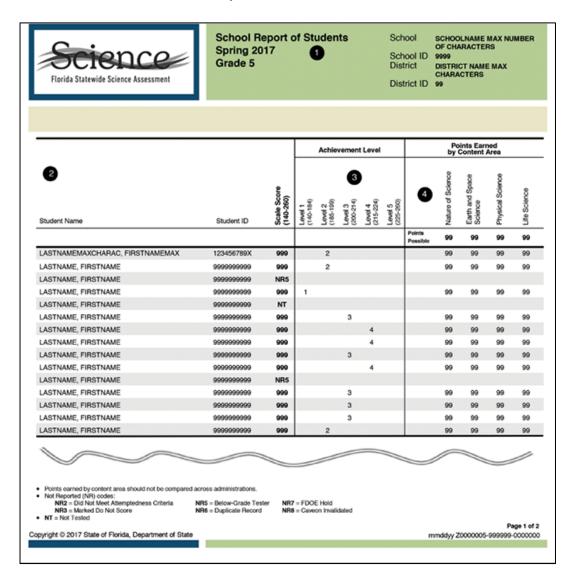
Content Area Scores and Performance Compared: This section contains two charts; one describing the student's reporting category scores and one that compares the student's performance with that of their school, their district, and the state. The left chart lists the assessed Statewide Science Assessment content areas, also called reporting categories. The "Points Earned" column shows the actual number of points earned in each of the content areas. The number of points earned reflects the number of questions a student answered correctly. The "Points Possible" column provides the total number of points possible for each of the content areas. The "State Mean" is provided on the far right for comparison and shows the mean earned by students across the state. The chart on the right describes the percentages of students in each performance level for the school, district, and state. The student's performance level is highlighted in the chart.

#### **Performance Level Indicators**

Performance levels are indicated by both number and color for easy interpretation. The figure below displays each of the levels from 1 (Inadequate) to 5 (Mastery).



## Statewide Science Assessment School Report of Students



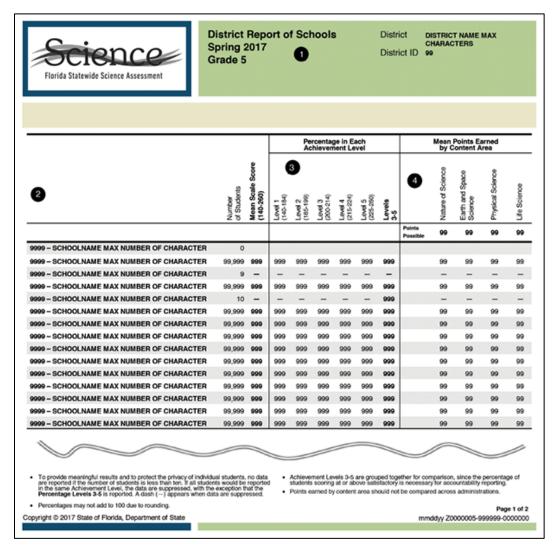
The format shown above is used for the Statewide Science Assessment *School Report of Students*. Only authorized district and school personnel may access this report since it contains confidential student information.

- **1 Top of Report:** The title of the report is printed here. It identifies the content of the report and the grade level of the data included in the report. The name and number of the district and school are also printed in this area.
- **2 Left Side of Report:** This section of the report displays an alphabetical list of students whose tests were submitted for scoring. The name and student ID of each student appear in the first two columns. For the Statewide Science Assessment, the **scale score** is provided in the third column. For students receiving "NR" in the scale score column, the footnote at the bottom of the report details the reason(s) why the score is not reported (see page 6 for NR codes). If a student has "NT" in the scale score column, this means that the student was not tested.

- **3** Achievement Level Section: This section of the report indicates the student's Achievement Level. The scale score range for each Achievement Level is provided in the header.
- **Points Earned by Content Area:** The first row of information shown in this section provides the "**Points Possible**" for each content area, or **reporting category**. The points possible vary by subject and grade level. If the student received a score, the **points earned** by content area appear on that student's row. The number of points earned is the number of questions a student answered correctly.

The School Report of Students does not contain summary information.

## Statewide Science Assessment State and District Reports of Results



The format shown above is used for the following Statewide Science Assessment reports: District Report of Schools, District Summary, State Report of Districts, and/or State Summary.

- **1 Top of Reports:** The title of the report is printed here identifying the **subject area** of the report; the *District Report of Schools* and *State Report of Districts* provide the grade level of the data included in the report. The name and number of the district are also printed in this area on district-level reports.
- **2 Left Side of Reports:** Identifying information for the district or school is provided in the first column. On the *District Summary* and *State Summary*, the grade level for the data is provided in this column. The number of students tested appears in the second column of all reports. The **Mean Scale Score** is provided in the third column.
- **3** Percentage in Each Achievement Level: This section of the report indicates the percentage of students who scored within each Achievement Level, as well as the percentage of students scoring in Achievement Levels 3 through 5, since the percentage of students scoring at or above satisfactory is necessary for accountability reporting. The Statewide Science Assessment Scale Score range for each Achievement Level is provided in the header of the District Report of Schools and State Report of Districts. Tables providing the Statewide Science

Assessment Scale Score ranges for the Achievement Levels for each grade are provided at the bottom of the *District Summary* and *State Summary*.

- **Mean Points Earned by Content Area:** The first row of information shown in this section provides the "**Points Possible**" for each **reporting category**, which varies by grade level. The other information in this section varies depending on the report:
  - The District Report of Schools displays mean points earned by school.
  - The State Report of Districts displays mean points earned by district.
  - The District Summary displays district- and state-level mean points earned, grouped by grade level.
  - The State Summary displays state-level mean points earned, grouped by grade level.

# Statewide Science Assessment Reporting Categories

The content of the Statewide Science Assessment is organized by **reporting categories** that are used for test design, scoring, and reporting purposes. Reporting categories group the assessed student knowledge and skills, or **benchmarks**, into broad content areas. The difficulty of the concepts assessed on the Statewide Science Assessment progresses systematically from grade 5 to grade 8.

When interpreting student results provided under their performance details for each reporting category, the following cautions and information should be considered:

- The number of items in a reporting category will vary by grade level. Consequently, users should not compare reporting category 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 reporting category scores across years.
- The analysis is based on state-level data that are not intended to provide specific classroom, school, or district interpretations.

#### Statewide Science Assessment Reporting Categories

The Statewide Science Assessment measures student achievement of the *Next Generation Sunshine State Standards* in science. For grades 5 and 8, the Statewide Science Assessment includes only multiple-choice items.

For both grade levels tested, the Statewide Science Assessment tests what students know and are able to do in the broad **reporting categories** listed below.

#### Grade 5

#### Nature of Science

Students evaluate investigations and experiments; organize data; identify the control group in an experiment; interpret data and analyze information; and distinguish between observations and opinions.

#### • Earth and Space Science

Students distinguish among objects in our solar system; identify categories of rocks and characteristics of minerals; differentiate between physical weathering and erosion; identify characteristics associated with different climate zones; and identify factors that affect weather.

#### Physical Science

Students identify basic forms of energy; identify familiar forces; trace the conversion of electric energy into other forms of energy; and distinguish relationships among mass, force, and motion.

#### Life Science

Students identify the function of human body organs; compare life cycles of Florida plants and animals; identify adaptations in animals and plants that allow them to survive; and trace energy through a food chain.

#### **Grade 8**

#### Nature of Science

Students identify test and outcome variables in an experiment; differentiate between experiments and investigations; analyze information to make inferences or predictions; differentiate between replication and repetition; and distinguish between theories and laws.

#### • Earth and Space Science

Students relate the positions of the Sun, Moon, and Earth that result in tides, moon phases, and eclipses; identify Earth changes due to weathering, erosion, and plate tectonics; and recognize that the Sun's energy influences global atmospheric patterns.

#### Physical Science

Students classify substances by physical properties; differentiate between physical and chemical change; distinguish between kinetic and potential energy; and differentiate contact forces and forces acting at a distance.

#### • Life Science

Students identify functions of the human body systems; classify organisms; identify ways genetic variation contributes to the scientific theory of evolution; determine probabilities for genotypic and phenotypic combinations; and distinguish relationships among organisms in a food web.

# **NGSSS EOC Introduction**

Students who participated in the **NGSSS** Algebra 1 Retake EOC should reference *Understanding NGSSS Reports FCAT 2.0 Reading Retake and Algebra 1 EOC Retake, Spring 2017*, available on the FDOE website. New EOC assessments aligned to the Florida Standards in Algebra 1, Geometry, and Algebra 2 were administered for the first time in Spring 2015. Students who participated in the Florida Standards Assessments (FSA) EOCs should reference *Understanding FSA Reports*, also available on the FDOE website.

Note: Terms defined in the glossary (located on pages 31–32) are cross-referenced and appear in **bold text** the first time they are referenced in a paragraph.

#### **Purpose of the NGSSS EOC Assessments**

In accordance with Section 1008.22, F.S., the Florida Department of Education (FDOE) has implemented EOC assessments for certain courses administered at the middle and high school levels. The **NGSSS** EOC assessments are designed to measure student achievement of the NGSSS for specific courses, as outlined in their course descriptions (content knowledge and skills, as specified in the NGSSS **benchmarks**, taught in a course). These assessments are part of Florida's Next Generation Strategic Plan for increasing student achievement and improving college and career readiness.

Students will take **NGSSS** EOC assessments close to completion of the courses listed on pages 15–16. For additional background information, see

http://www.fldoe.org/core/fileparse.php/5662/urlt/NGSSSEOCFS1617.pdf.

#### Students Tested in 2016-17

The Biology 1, Civics, and U.S. History EOC assessments were administered to students close to the end of the semester in which the course was completed (e.g., a student in block scheduling who completed a course at the end of semester one took the assessment in the winter). Course descriptions for the courses listed below are posted at <a href="http://www.floridastandards.org/Courses/CourseDescriptionSearch.aspx">http://www.floridastandards.org/Courses/CourseDescriptionSearch.aspx</a>.

#### **Biology 1 EOC Assessment**

The Biology 1 EOC Assessment was administered to students enrolled in and completing any of the following courses:

- Biology 1—2000310
- Biology 1 Honors—2000320
- Pre-AICE Biology—2000322
- AP Biology—2000340
- Biology Technology—2000430
- Pre-International Baccalaureate Biology 1—2000800
- IB Biology 1—2000805
- IB Middle Years Program Biology—2000850
- Integrated Science 3—2002440
- Integrated Science 3 Honors—2002450

#### **Civics EOC Assessment**

The Civics EOC Assessment was administered to students enrolled in and completing one of the following courses:

- M/J Civics—2106010
- M/J Civics—2106015
- M/J Civics & Career Planning—2106016
- M/J Civics, Advanced—2106020

- M/J Civics, Advanced—2106025
- M/J Civics, Advanced & Career Planning—2106026
- M/J Civics and Digital Technologies—2106029
- M/J U.S. History & Civics—2100045
- M/J IB Middle Years Program Civics Advanced—2106027
- M/J IB Middle Years Program Civics Advanced & Career Planning—2106028

#### **U.S. History EOC Assessment**

The U.S. History EOC Assessment was administered to students enrolled in and completing one of the following courses:

- United States History—2100310
- United States History Honors—2100320
- Visions and Countervisions: Europe, U.S. and the World from 1848—2100390
- Visions and Countervisions: Europe, U.S. and the World from 1848 Honors—2100480

#### **All NGSSS EOC Assessments**

For all **NGSSS** EOC assessments, participating students include ELL and ESE students enrolled in the courses. Accommodations were available for eligible ELL and ESE students. In addition to the students enrolled in the courses listed in each section above, the following students may have participated in an NGSSS EOC assessment administration:

- Students retaking an assessment to earn a passing score for graduation purposes (i.e., Scholar diploma designation)
- Students who had not yet taken an assessment to be averaged as 30 percent of their final course grade
- Students enrolled in a grade forgiveness program retaking the assessment to improve their course grade
- Students in a credit acceleration program (CAP) taking the assessment to earn course credit
- Private school students planning to transfer to the public school system

#### 2016–17 Test Administration Schedule

The full schedule for all statewide assessments for the 2016–17 school year is posted at <u>this link</u>. The schedule provides guidance to districts regarding the order subjects must be tested in for a test administration, if applicable.

The Fall 2016 **NGSSS** EOC assessment testing window was September 12–23, 2016, and the Winter 2016 EOC assessment testing window was November 28–December 16, 2016. For the Spring 2017 NGSSS EOC Assessments, the testing window was April 17–May 19, 2017. The Summer 2017 NGSSS EOC administration will occur from July 10–21, 2017.

# NGSSS EOC Assessments Test Design

#### **Test Sessions**

All **NGSSS** EOC assessments were administered in one 160-minute session with a 10-minute break after the first 80 minutes (individual breaks were allowed as needed). Although the assessments are scheduled for a 160-minute session, any student not finished by the end of the 160 minutes was permitted to continue working; however, testing had to be completed within the same school day.

#### **Testing Format**

All **NGSSS** EOC assessments were administered via a **computer-based testing** platform. Paper-based versions (e.g., regular print, large print, braille, one-item-per-page) were provided for students with disabilities who

required allowable accommodations, as specified in their IEPs or Section 504 plans. Text-to-speech and answer masking are computer-based accommodations available accommodations that were available for students whose IEPs or Section 504 plans indicated these accommodations.

For the Biology 1 EOC Assessment, students could request the use of a hand-held four-function calculator if, after participating in a practice test, they preferred not to use the online calculator provided. Biology 1 students were provided four-page work folders to use as scratch paper. For the U.S. History and Civics EOC Assessments, districts decided whether to permit students to use a one-page **computer-based testing** worksheet as scratch paper for note-taking.

#### **Question Formats**

**Multiple-choice items** appear on all **NGSSS** EOC assessments. Students choose the best answer from four answer choices.

#### **2017 NGSSS EOC Assessment Forms**

During test construction, the four test forms for each **NGSSS** EOC assessment were developed by content and psychometric experts using operational and field-test statistics so the forms would be comparable in difficulty. The four forms created for each NGSSS EOC assessment were then reviewed by committees of Florida science and social studies educators who were trained in Dr. Norman Webb's alignment criteria prior to the review. Committee members conducted a comprehensive review of the test forms and found them to be fair assessments aligned with the course descriptions for each NGSSS EOC assessment. The committees did not recommend any changes to the test forms.

Each form of the Biology 1 EOC Assessment includes 60–66 selected-response questions. Each form of the U.S. History EOC Assessment includes 50–60 selected-response questions. Each form of the Civics EOC Assessment includes 52–56 selected-response questions. Approximately six to 10 of these questions, which are also referred to as test **items**, are field-test questions and are NOT used to calculate student scores.

There were four test forms of the Biology 1, Civics, and U.S. History EOC assessments in Spring 2017. These forms are coded as Forms A, B, C, and D. For each **NGSSS** EOC assessment, each form contained questions common to all four forms, as well as questions unique to each form and field-test questions. Table 3 on the following page provides the percentage of questions in each **reporting category** for each NGSSS EOC assessment.

**Table 3: Reporting Category Percentages for NGSSS EOC Assessments** 

Assessment	Category	Percentage
	Molecular and Cellular Biology	35
Biology 1	Classification, Heredity, and Evolution	25
	Organisms, Populations, and Ecosystems	40
Civics	Origins and Purposes of Law and Government	25
	Roles, Rights, and Responsibilities of Citizens	25
	Government Policies and Political Processes	25
	Organizations and Functions of Government	25
U.S. History	Late Nineteenth and Early Twentieth Centuries, 1860–1910	33
	Global Military, Political, and Economic Challenges, 1890–1940	34
	The United States and the Defense of the International Peace, 1940–2010	33

The test forms match the test design in the Test Design Summary posted on the FDOE website.

# **NGSSS EOC Assessment Scores**

**NGSSS** EOC assessments are reported using **scale scores** and **Achievement Levels**, also known as Performance Levels.

#### **Achievement Levels**

**Achievement Levels** (also called Performance Levels) describe a student's success with the content assessed. Achievement Levels range from 1 to 5; Level 1 is the lowest, and Level 5 is the highest. Level 3 indicates satisfactory performance. The passing score for each **NGSSS** EOC assessment is the minimum **scale score** in Achievement Level 3.

**Achievement Levels** were established by the State Board of Education for the Biology 1 EOC Assessment on December 12, 2012. Achievement Levels were established by the State Board of Education for the U.S. History EOC Assessment on January 21, 2014, and Achievement Levels for the Civics EOC Assessment were established on January 14, 2015.

The following **Achievement Level** policy definitions, which describe student success with the **NGSSS** standards, apply to all NGSSS EOC assessments:

- **Level 5** Students at this level demonstrate mastery of the most challenging content of the *Next Generation Sunshine State Standards*.
- **Level 4** Students at this level demonstrate proficiency with the challenging content of the *Next Generation Sunshine State Standards*.
- **Level 3** Students at this level demonstrate a satisfactory level of mastery with the challenging content of the *Next Generation Sunshine State Standards*.
- **Level 2** Students at this level demonstrate a below satisfactory level of mastery with the challenging content of the *Next Generation Sunshine State Standards*.
- **Level 1** Students at this level demonstrate an inadequate level of mastery with the challenging content of the *Next Generation Sunshine State Standards*.

Table 4 provides the **scale score** range for each **Achievement Level** for the Biology 1, Civics, and U.S. History EOC assessments.

Table 4: Achievement Levels for the NGSSS EOC Assessment Scale Scores (325–475)

Course	Level 1	Level 2	Level 3 (Passing)	Level 4	Level 5
Biology 1	325-368	369-394	395-420	421-430	431–475
Civics	325-375	376-393	394-412	413-427	428-475
U.S. History	325-377	378-396	397-416	417-431	432-475

#### **Equating**

Since there are four test forms for each Spring 2017 **NGSSS** EOC assessment, student results from all four test forms for an NGSSS EOC assessment must be compared and, if necessary, adjusted to ensure that the difficulty level of the test is the same for each form. This process, called equating, takes place after testing when enough student scores are in the system to ensure that a representative sample of student results is available for use in the comparison.

For the Biology 1, Civics, and U.S. History EOC assessments, there are two main steps in the equating process. First, the four different test forms are concurrently calibrated, which places the **state mean** at a score of 400 for all test forms combined, and ensures that student scores across the four test forms are comparable. Even if the state mean for each test form differs slightly across forms, this step ensures that the interpretation or meaning of student Biology 1, Civics, and U.S. History EOC assessment scores on the different forms is the same. Second, the test forms concurrently calibrated in the previous step are also placed on the baseline scale so that the performance of the current year's students on the **NGSSS** EOC assessment can be compared to the performance of the initial year's students on the same assessment. This two-step process ensures that test scores are comparable within and across years.

#### **Reporting Category Scores**

**Reporting Category scores** represent the actual number of questions answered correctly within each **reporting category**. These scores are also known as raw scores. Reporting categories represent groups of similar skills, or **benchmarks**, which are assessed within each **subject area**. The **state mean** for each reporting category is provided on Individual Student Reports, and aggregated files are provided to districts to allow for comparisons to average performance statewide. There are three reporting categories for the Biology 1 and U.S. History EOC assessments and four reporting categories for the Civics EOC Assessment. The content assessed by each **NGSSS** EOC assessment is described on pages 29–30.

# NGSSS EOC Assessment Student, School, District, and State Reports

NGSSS results are reported in several formats. Reports are distributed to students, schools, and districts. Table 5 below provides a list of the NGSSS reports and the page of this document on which each type of report is described.

**Table 5: NGSSS EOC Assessment Reports** 

	NGSSS EOC Assessment Report Type	Page of Report Description	
oorts	Biology 1 EOC Assessment Individual Student Report	<u>23–24</u>	
Student Reports	Civics EOC Assessment Individual Student Report	<u>23–24</u>	
Stude	U.S. History EOC Assessment Individual Student Report	<u>23–24</u>	
orts	Biology 1 EOC Assessment School Report of Students	<u>25–26</u>	
School Reports	Civics EOC Assessment School Report of Students	<u>25–26</u>	
Scho	U.S. History EOC Assessment School Report of Students	<u>25–26</u>	
	Biology 1 EOC Assessment District Report of Schools	<u>25–26</u>	
rts	Civics EOC Assessment District Report of Schools		
District Reports	U.S. History EOC Assessment District Report of Schools	<u>27–28</u>	
trict	Biology 1 EOC Assessment District Summary	27–28	
Dis	Civics EOC Assessment District Summary	<u>27–28</u>	
	U.S. History EOC Assessment District Summary	27–28	
	Biology 1 EOC Assessment State Report of Districts	<u>27–28</u>	
S	Civics EOC Assessment State Report of Districts	<u>27–28</u>	
epor	U.S. History EOC Assessment State Report of Districts	<u>27–28</u>	
State Reports	Biology 1 EOC Assessment State Summary	<u>27–28</u>	
Civics EOC Assessment State Summary		<u>27–28</u>	
	U.S. History EOC Assessment State Summary	<u>27–28</u>	

#### **Codes for No Data Reported**

The following codes may appear on some student-level educator reports.

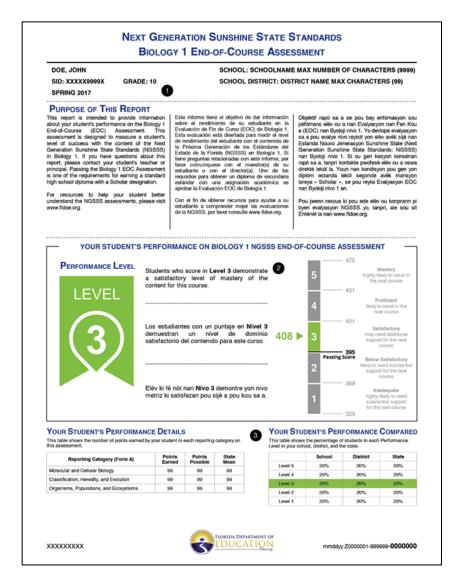
**NR** (Not Reported) indicates that no data are reported for the student. Reports containing student results will indicate that no data are reported for one of the following reasons:

- NR2—Did Not Meet Attemptedness Criteria
- NR3—Marked Do Not Score
- NR6—Duplicate Record
- NR7—FDOE Hold
- NR8—Caveon Invalidated

If a student receives an NR code, the parent or student should consult the student's designated guidance counselor.

A dash (—) on the student, school, district, or state level reports appears when data are suppressed. To provide meaningful results and to protect the privacy of individual students, no data are reported if the number of students is less than ten. If all students would be reported in the same **Achievement Level**, the data are suppressed, with the exception that the totaled percentage of levels 3–5 is reported on summary educator reports.

# Biology 1, Civics, and U.S. History EOC Assessments Individual Student Reports



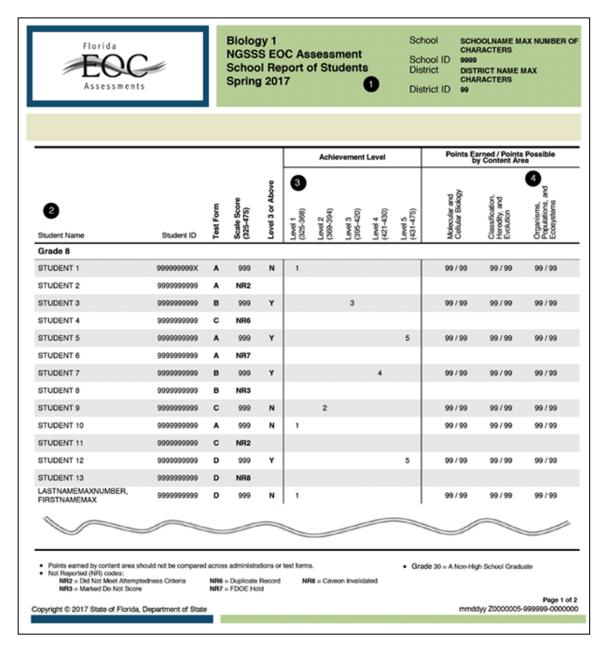
The report format shown above is used for the *Biology 1 EOC Assessment Student Report*, *Civics EOC Assessment Student Report*, and *U.S. History EOC Assessment Student Report*.

The Biology 1 EOC Assessment Student Reports, Civics EOC Assessment Student Reports, and U.S. History EOC Assessment Student Reports are one-page reports. The reports provide an explanation of the score requirements and display the student's scale score. They also provide the student's content area scores. This information is translated into Spanish and Haitian Creole.

- **1 Top of Report and Purpose of Report:** The test, grade level, student, school, and district are identified on the top of the report. An introductory note explaining the score requirements appears under the "Purpose of the Report."
- **Performance Level and Scale Score:** An icon displays the student's performance level. Next to the icon, a statement provides further information regarding the performance level and charts the scale score on a graph.

**3** Reporting Category Scores and Performance Compared: This section contains two charts: one describing the student's reporting category scores and one that compares the student's performance with that of their school, their district, and the state. The left chart lists the reporting categories assessed. The "Points Earned" column shows the actual number of points earned in each of the reporting categories. The number of points earned reflects the number of questions a student answered correctly. The "Points Possible" column provides the total number of points possible for each of the content areas. The "State Mean" is provided on the far right for comparison and shows the mean earned by students across the state. The chart on the right describes the percentages of students in each performance level for the school, district, and state. The student's performance level is highlighted in the chart.

# Biology 1, Civics, and U.S. History EOC Assessments School Report of Students



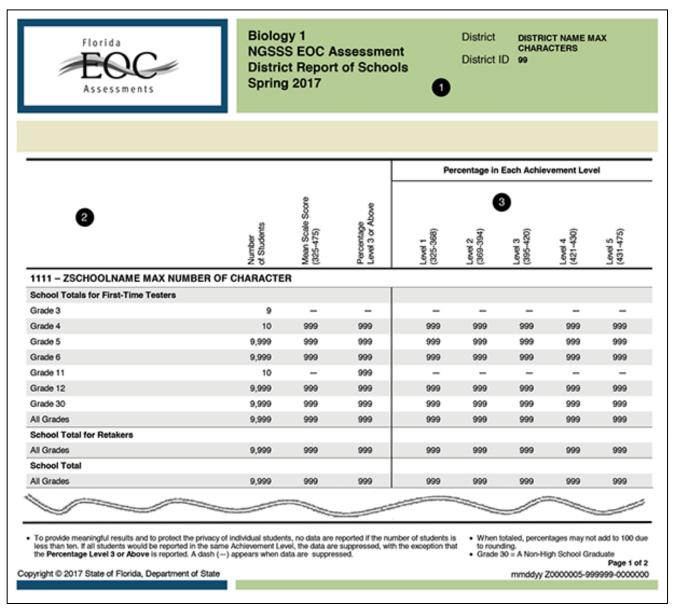
The report format shown above is used for the *Biology 1 EOC Assessment School Report of Students, Civics EOC Assessment School Report of Students*, and *U.S. History EOC Assessment School Report of Students*. Only authorized district and school personnel may access this report since it contains confidential student information.

- **1 Top of Report:** The title of the report is printed here. It identifies the **subject area** and test administration for the data included in the report. The name and number of the district and school are also printed in this area.
- **2 Left Side of Report:** The name and student ID for all students whose tests were submitted for scoring appear in the first two columns. Students are grouped by grade level, which is indicated in the first column. The test form is provided in the third column (only on spring reports), and each student's **scale score** is provided in the

fourth column. For a student with an "NR" code in the fourth column, the footnote at the bottom of the report details reasons why the score is not reported (see page 22 for NR codes). The "Level 3 or Above" column indicates whether a student earned a passing score with a "Y" (Yes) or "N" (No). The passing score for each **NGSSS** EOC assessment is the minimum score in **Achievement Level** 3. To achieve a standard high school diploma with a Scholar designation, students must pass the Biology 1 and U.S. History EOC assessments.

- **3** Achievement Levels: This section of the report indicates the student's Achievement Level. The score range for each Achievement Level is provided in the header.
- Points Earned/Points Possible by Content Area: The content areas are listed in the header of this section. The "Points Earned" out of the "Points Possible" for each content area, or reporting category, are provided for each student. The number of points earned reflects the number of questions a student answered correctly. The School Report of Students does not contain summary information. A footnote for this section reads, "Points earned by content area should not be compared across administrations or test forms."

# Biology 1, Civics, and U.S. History EOC Assessments State and District Reports of Results



The report format shown above is used for the following Biology 1, Civics, or U.S. History EOC assessment reports: District Report of Schools, District Summary, State Report of Districts, and/or State Summary. These reports are formatted similarly.

- **1** Top of Reports: The title of the report is printed here. It identifies the **subject area** and test administration for the data included in the report. The name and number of the district are also printed in this area on district-level reports.
- **2** Left Side of Reports: As appropriate, identifying information for the district or school is provided in the first column. The first column indicates whether the data are for first-time testers (separated by grade level), retakers (all grades combined), or all students (first-time testers and retakers for all grades combined). The number of students tested appears in the second column of all reports. The **mean scale score** is provided in the third column. The "Percentage Level 3 or Above" column indicates the percentage of students who

earned a passing score. The passing score for each **NGSSS** EOC assessment is the minimum score in **Achievement Level** 3.

**3** Percentage in Each Achievement Level: This section of the report indicates the percentage of students who scored within each Achievement Level. The scale score range for each Achievement Level is provided in the header.

# **NGSSS EOC Reporting Categories**

The content of the **NGSSS** EOC assessments is organized by **reporting categories** that are used for test design, scoring, and reporting purposes. Reporting categories group the assessed student knowledge and skills, or **benchmarks**, into broad content areas.

When interpreting student results provided under their performance details for each reporting category, the following cautions and information should be considered:

- The items in each EOC assessment reporting category will potentially vary by test form. Consequently, users should not compare reporting category 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 reporting category scores across years.
- The analysis is based on state-level data that are not intended to provide specific classroom, school, or district interpretations.

Definitions for each reporting category are provided below for each of the 2017 NGSSS EOC assessments.

#### **Biology 1 EOC Assessment Reporting Categories**

The Biology 1 EOC Assessment measures student achievement of the **NGSSS** in science, as outlined in the Biology 1 course description. The 2016–17 Biology 1 course description may be accessed at <a href="http://www.cpalms.org/Public/PreviewCourse/Preview/13083?isShowCurrent=false&backend=true">http://www.cpalms.org/Public/PreviewCourse/Preview/13083?isShowCurrent=false&backend=true</a>. The test consists of **multiple-choice items** that measure what students know and are able to do in the broad **reporting categories** listed below.

#### Molecular and Cellular Biology

Students compare prokaryotic and eukaryotic cells; differentiate between mitosis and meiosis; relate the structure and function of the four major categories of biological macromolecules; and differentiate the processes of photosynthesis and cellular respiration.

#### • Classification, Heredity, and Evolution

Students identify evidence that supports the scientific theory of evolution; classify organisms into domains or kingdoms; identify scientific explanations of the origin of life; determine conditions required for natural selection; and analyze patterns of inheritance.

#### Organisms, Populations, and Ecosystems

Students relate structure and function of organs and tissues in plants and animals; evaluate factors contributing to changes in population size; determine consequences of the loss of biodiversity; and evaluate the impact of biotechnology.

#### **Civics EOC Assessment Reporting Categories**

The Civics EOC Assessment measures student achievement of the **NGSSS** in social studies, as outlined in the M/J Civics course description. The 2016–17 M/J Civics course description may be accessed at <a href="http://www.cpalms.org/Public/PreviewCourse/Preview/13313?isShowCurrent=false">http://www.cpalms.org/Public/PreviewCourse/Preview/13313?isShowCurrent=false</a>. The test consists of **multiple-choice items** that measure what students know and are able to do in the broad **reporting categories** listed below.

#### • Origins and Purposes of Law and Government

Students identify the origin, course, and development of the American legal and political traditions; the inherent conflicts involved in formulating those documents which would establish the nation; and how those

concepts of the rule of law, limited government, and checks and balances remained constant through the first centuries of American history.

#### Roles, Rights, and Responsibilities of Citizens

Students understand and define the concepts of *citizen* and *citizenship* with their corresponding obligations, rights, and responsibilities; explain the role of the Constitution in safeguarding individual rights and limiting government power; and evaluate the impact of relevant constitutional amendments and the significance and outcomes of landmark Supreme Court decisions.

#### • Government Policies and Political Processes

Students identify current political parties and formulate ideas regarding government; examine the impact of interest groups; evaluate political candidates; analyze the role of media in policy issues; identify appropriate government agencies for resolving policy debates; comprehend and differentiate concepts related to U.S. domestic and foreign policy; and describe how the United States has dealt with international conflicts.

#### • Organizations and Functions of Government

Students compare the different forms and systems of government; understand the role of the three branches of government; recognize the division of federal and state obligations and powers; articulate the constitutional amendment process; understand the judicial process; and compare the Constitutions of the United States and Florida.

#### **U.S. History EOC Assessment Reporting Categories**

The U.S. History EOC Assessment measures student achievement of the **NGSSS** in social studies, as outlined in the United States History course description. The 2016–17 United States History course description may be accessed at <a href="http://www.cpalms.org/Public/PreviewCourse/Preview/13379?isShowCurrent=false&backend=true">http://www.cpalms.org/Public/PreviewCourse/Preview/13379?isShowCurrent=false&backend=true</a>. The test consists of **multiple-choice items** that measure what students know and are able to do in the broad **reporting categories** listed below.

#### • Late Nineteenth and Early Twentieth Centuries (1860–1910)

Students understand and articulate the impact of issues related to the Civil War, Reconstruction, the closing of the frontier, the industrialization of the nation, and changes in American society at the beginning of the twentieth century.

#### Global Military, Political, and Economic Challenges (1890–1940)

Students understand and articulate the impact of the issues related to the rise of American military power; America's increased involvement in world affairs; and changing social, political, and economic forces affecting the 1920s and 1930s.

#### • The United States and the Defense of the International Peace (1940–2010)

Students understand and articulate the impact of issues related to World War II, the Cold War, the social revolutions of the late twentieth century, and the challenges of the early twenty-first century.

# **Glossary**

Note: Terms defined in this glossary that have been cross-referenced appear in **bold text** the first time they are referenced in a definition other than their own.

Achievement Levels (also called Performance Levels)—Five categories of achievement that represent the success students demonstrate with the content assessed. The Achievement Levels are helpful in interpreting what a student's score represents. Achievement Levels range from 1 to 5, with Level 1 being the lowest and Level 5 being the highest. The minimum score in Achievement Level 3 is the passing score for each assessment, as achieving a score in Level 3 is considered satisfactory.

**Benchmark**—A specific statement that describes what students should know and be able to do. The benchmarks are part of the **Next Generation Sunshine State Standards**.

**CBT Tools**—Tools available to students in the **computer-based testing** platform. CBT tools vary slightly depending on the **subject area**.

**Computer-Based Practice Test**—Students participate in a practice test session at school that demonstrates the tools and **item** types they will see on the actual assessment. The practice test is delivered through an online tool, which mimics the software the students will use on the day of testing. This practice test is not intended to be a predictor of performance on the assessment. Students may practice on their own by accessing the appropriate practice test at www.FLAssessments.com/ePAT.

Computer-Based Testing (CBT)—Most Florida statewide assessments are administered using a computer-based format. In 2017 Reading Retake, Algebra 1 Retake, U.S. History, Civics, and Biology were given in a computer-based format, with paper-based accommodations offered for eligible students. When testing on the computer, students make their answer choices on the computer, and they may use various CBT tools, as they respond. Once they have completed the test, they submit their answers electronically. Before exiting the test and submitting their responses, students are taken to a screen that identifies questions that are answered, unanswered, and marked for review.

Items—Test questions that students are required to answer.

**Mean**—An average of the individual scores that describes the performance of a group of students. The mean is computed by finding the sum of all scores and dividing by the number of scores.

**Median**—A score that identifies the middle value of a group of data. The median is the point at which a group of numbers (scores) is divided in half (50 percent above and below).

**Mode**—The most frequently occurring score in a set of scores. If a distribution of scores is statistically normal, the **mean**, **median**, and mode are the same score.

**Multiple-Choice**—Test questions that present students with several options from which to choose the correct answer. The **NGSSS** Reading (retake only), Algebra 1 (retake only), U.S. History, Civics, Biology 1, and Science assessments use multiple-choice **items** in which four choices are given, only one of which is correct.

**Next Generation Sunshine State Standards (NGSSS)**—The core content of the curricula taught in Florida in science and social studies. For 2016–17, the NGSSS specify the core content knowledge and skills that K–12 public school students are expected to acquire in the **subject areas** of science, social studies, visual and performing arts, physical education, health, and foreign languages. The NGSSS **benchmarks** identify what a student should know and be able to do at each grade level for each subject area.

**Percentile Rank**—The percentile rank is the percentage of scores that fall at or below a given score.

Points Earned—See Reporting Category Scores.

**Points Possible**—The number of "Points Possible" is the sum of the maximum scores for test **items** measuring a given **reporting category**. The number of points possible in a reporting category may change slightly with each administration.

**Reporting Category**—Broad content areas into which student knowledge of the assessed **NGSSS benchmarks** are grouped.

**Reporting Category Scores**—The sum of the scores for **items** measuring a given **reporting category**. Reporting category scores are also referred to as raw scores.

**Scale Score**—A scale score is used to report student results on the entire test on the **NGSSS** and also reflects a student's achievement level.

**State Mean**—The average **scale score** for each assessment used for comparison purposes. Individual student scores, school **mean** scores, or district mean scores can be compared to the state mean.

**Subject Area**—The content contained in an area of study. The subject areas assessed in the 2017 **NGSSS** are Reading (retake only), Algebra 1 (retake only), U.S. History, Civics, Biology 1, and Science.

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