



*Release of  
February 2019  
MCAS Biology  
Test Information*

**March 2019  
Massachusetts Department of  
Elementary and Secondary Education**



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# I. Document Purpose and Structure

# *Document Purpose and Structure*

## **Purpose**

The purpose of this document is to share with educators and the public information regarding the February 2019 MCAS Biology test, including the reporting category and standard associated with each item. Beginning in 2019, the Department no longer releases items from the February Biology test. The decision to withhold the items from the February Biology test assists the Department in producing high-quality Biology tests in future years. All items continue to be released for the spring Biology test.

## **Structure**

Chapter II of this document contains information for the February 2019 Biology test and has two sections. The **first section** lists the Massachusetts curriculum framework content strands assessed by the Biology MCAS test. These content strands are identical to the MCAS reporting categories under which test results are reported to schools and districts. The first section also provides the Web address for the *Science and Technology/Engineering Curriculum Framework* and the page numbers on which the learning standards assessed by the test items in the chapter can be found. In addition, there is a brief overview of the test (number of test sessions, types of items, and reference materials allowed).

The **second section** of the chapter is a table that cross-references each item with its MCAS reporting category and with the *Framework* standard it assesses.

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## II. February 2019 Biology Test

## *February 2019 Biology Test*

The February 2019 high school MCAS Biology test was based on learning standards in the Biology content strand of the Massachusetts *Science and Technology/Engineering Curriculum Framework* (2006). These learning standards appear on pages 54–58 of the *Framework*, which is available on the Department website at [www.doe.mass.edu/frameworks/archive.html](http://www.doe.mass.edu/frameworks/archive.html).

Biology test results are reported under the following five MCAS reporting categories:

- Biochemistry and Cell Biology
- Genetics
- Anatomy and Physiology
- Ecology
- Evolution and Biodiversity

The table on the next page indicates each item’s reporting category and the framework learning standard it assesses.

### **Test Sessions**

The MCAS high school Biology test included two separate test sessions, which were administered on consecutive days. Each session included multiple-choice and open-response items.

### **Reference Materials and Tools**

The high school Biology test was designed to be taken without the aid of a calculator. Students were allowed to have calculators with them during testing, but calculators were not needed to answer questions.

During both Biology test sessions, the use of bilingual word-to-word dictionaries was allowed for current and former English learner students only. No other reference materials were allowed.

**Biology**  
**February 2019 Items:**  
**Reporting Categories and Standards**

<b>Item No.</b>	<b>Reporting Category</b>	<b>Standard</b>
1	<i>Ecology</i>	STE.Bio.Eco6.3
2	<i>Anatomy and Physiology</i>	STE.Bio.AP4.2
3	<i>Ecology</i>	STE.Bio.Eco6.4
4	<i>Evolution and Biodiversity</i>	STE.Bio.Evo5.3
5	<i>Evolution and Biodiversity</i>	STE.Bio.Evo5.2
6	<i>Evolution and Biodiversity</i>	STE.Bio.Evo5.1
7	<i>Genetics</i>	STE.Bio.Gen3.6
8	<i>Ecology</i>	STE.Bio.Eco6.3
9	<i>Ecology</i>	STE.Bio.Eco6.2
10	<i>Ecology</i>	STE.Bio.Eco6.2
11	<i>Ecology</i>	STE.Bio.Eco6.1
12	<i>Ecology</i>	STE.Bio.Eco6.3
13	<i>Biochemistry and Cell Biology</i>	STE.Bio.CL1.3
14	<i>Anatomy and Physiology</i>	STE.Bio.AP4.3
15	<i>Biochemistry and Cell Biology</i>	STE.Bio.Cell2.7
16	<i>Evolution and Biodiversity</i>	STE.Bio.Evo5.1
17	<i>Genetics</i>	STE.Bio.Gen3.4
18	<i>Genetics</i>	STE.Bio.Gen3.6
19	<i>Biochemistry and Cell Biology</i>	STE.Bio.CL1.1
20	<i>Genetics</i>	STE.Bio.Gen3.3
21	<i>Biochemistry and Cell Biology</i>	STE.Bio.CL1.2
22	<i>Anatomy and Physiology</i>	STE.Bio.AP4.6
23	<i>Evolution and Biodiversity</i>	STE.Bio.Evo5.3
24	<i>Evolution and Biodiversity</i>	STE.Bio.Evo5.2
25	<i>Genetics</i>	STE.Bio.Gen3.2
26	<i>Biochemistry and Cell Biology</i>	STE.Bio.Cell2.7
27	<i>Evolution and Biodiversity</i>	STE.Bio.Evo5.2
28	<i>Biochemistry and Cell Biology</i>	STE.Bio.Cell2.4
29	<i>Evolution and Biodiversity</i>	STE.Bio.Evo5.1
30	<i>Biochemistry and Cell Biology</i>	STE.Bio.Cell2.5
31	<i>Evolution and Biodiversity</i>	STE.Bio.Evo5.2
32	<i>Anatomy and Physiology</i>	STE.Bio.AP4.8
33	<i>Biochemistry and Cell Biology</i>	STE.Bio.Cell2.8
34	<i>Genetics</i>	STE.Bio.Gen3.3
35	<i>Genetics</i>	STE.Bio.Gen3.1
36	<i>Biochemistry and Cell Biology</i>	STE.Bio.Cell2.1
37	<i>Anatomy and Physiology</i>	STE.Bio.AP4.4
38	<i>Ecology</i>	STE.Bio.Eco6.1
39	<i>Biochemistry and Cell Biology</i>	STE.Bio.Cell2.3
40	<i>Genetics</i>	STE.Bio.Gen3.1
41	<i>Anatomy and Physiology</i>	STE.Bio.AP4.1
42	<i>Biochemistry and Cell Biology</i>	STE.Bio.Cell2.2
43	<i>Ecology</i>	STE.Bio.Eco6.3
44	<i>Genetics</i>	STE.Bio.Gen3.6
45	<i>Biochemistry and Cell Biology</i>	STE.Bio.Cell2.1