



## Assessment Details

### Important Testing Dates (2019 - 2020)

<b>Online testing and data entry</b>
<b>Science MCA:</b> March 2 - May 8
<b>Science MTAS:</b> March 2 – May 1

### Estimated Test Administration Times for Science MCA 2018-2019

<b>Grade</b>	<b>Total Test Administration</b>
High School	2-2.5 hours

### Target Item Counts by Depth of Knowledge (DOK) Levels

The MCA-III are constructed with minimum target percentages for items at DOK levels 1, 2 and 3. The table shows the target percentages and item counts by DOK levels.

Minimum Item Count Targets by DOK Level

<b>Grades</b>	<b>DOK Level 1</b>	<b>DOK Level 2</b>	<b>DOK Level 3</b>
5,8, and High School	40-60%	35-55%	5-10%

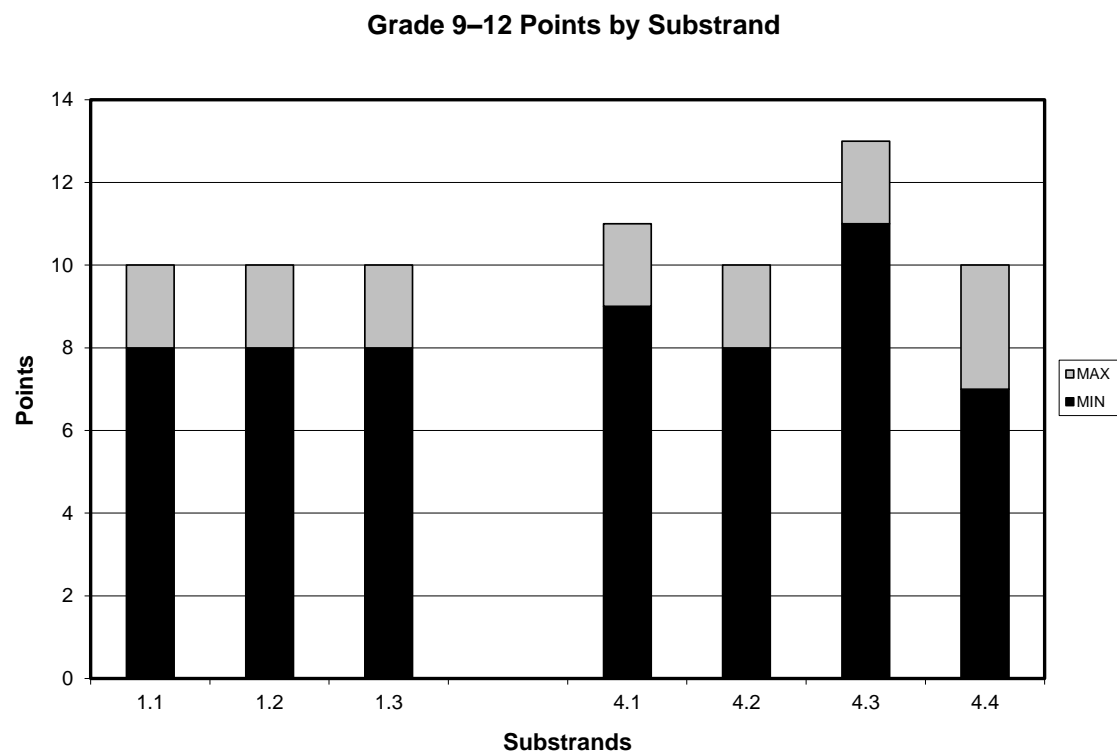
### The Design by Grade Level

The following tables provide the approximate number of points by strand on the operational test for each grade. Multiple-choice (MC) items are each worth 1 point, while other item types are worth 1-3 points. Approximately 40–60 percent of the test will be comprised of multiple-choice items, and other item types will make up the remainder of the test.

Grade 9-12 Science MCA-III (Operational Form)

Strand	Approximate Number of Points	Approximate Percent of Points
Nature of Science and Engineering (NSE)	24-28	38
Life Science (LS)	40-44	62
Total	68	100

Points by Substrand



## **Grades 9-12 Points by Substrand**

### **1. Nature of Science and Engineering (24-28)**

1. The Practice of Science (8-10)
2. The Practice of Engineering (8-10)
3. Interactions among Science, Technology, Engineering, Mathematics and Society (8-10)

### **2. Life Science (40-44)**

1. Structure and Function in Living Systems (9-11)
2. Interdependence Among Living Systems (8-10)
3. Evolution in Living Systems (11-13)
4. Human Interactions with Living Systems (7-10)