



## 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

Grade	Total Test Administration
5	1.5-2 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

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

### The Design by Grade Level

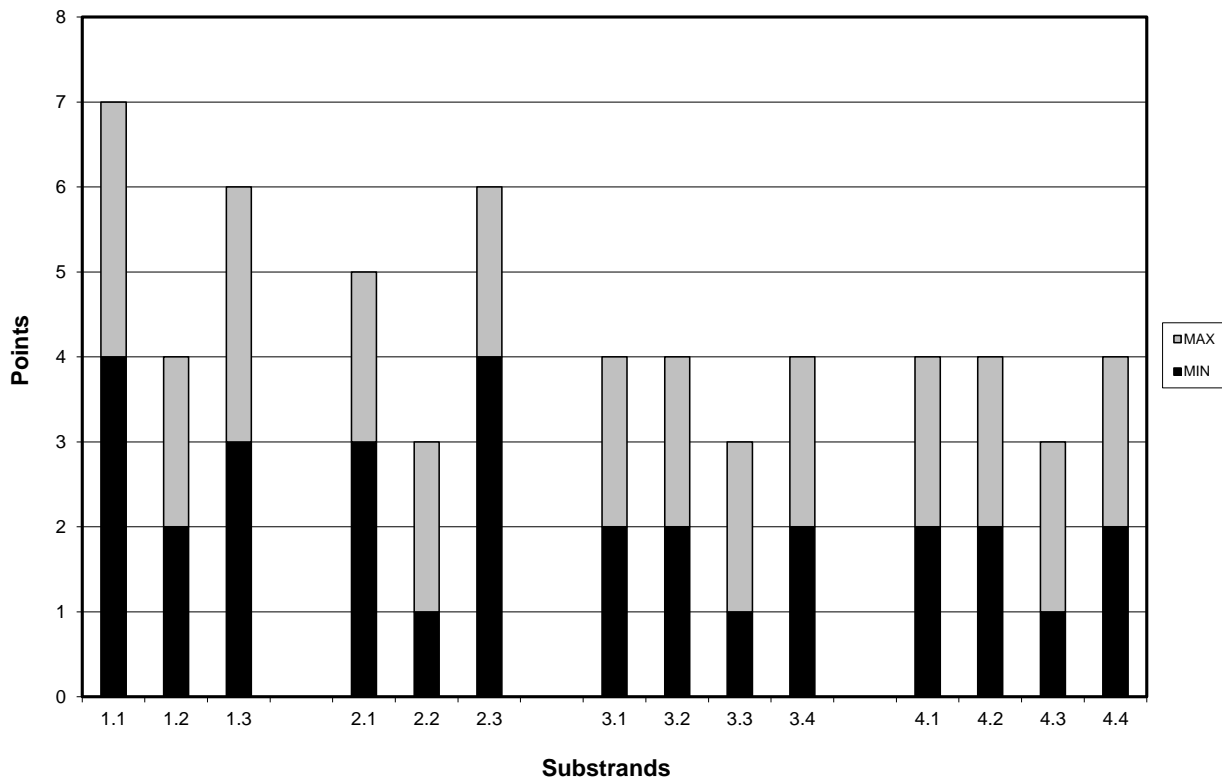
The following tables provide the approximate number of points by strand on the operational test for each grade. Multiple-choice (MC) items are each worth 1 point, while other item types are worth 1-3 points. Approximately 40–60 percent of the test will be comprised of multiple-choice items, and other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

## Grade 5 Science MCA-III (Operational Form)

Strand	Approximate Number of Points	Approximate Percent of Points
Nature of Science and Engineering (NSE)	11-13	28
^Physical Science (PS)	9-11	24
Earth and Space Science (ESS)	9-11	24
Life Science (LS)	9-11	24
<b>Total</b>	<b>41</b>	<b>100</b>

## Points by Substrand

Grade 3–5 Points by Substrand



## **Grades 3-5 Points by Substrand**

### **1. Nature of Science and Engineering (11–13)**

1. The Practice of Science (4–7)
2. The Practice of Engineering (2–4)
3. Interactions among Science, Technology, Engineering, Mathematics and Society (3–6)

### **2. Physical Science (9–11)**

1. Matter (3–5)
2. Motion (1–3)
3. Energy (4–6)

### **3. Earth and Space Science (9–11)**

1. Earth Structure and Processes (2–4)
2. Interdependence within the Earth System (2–4)
3. The Universe (1–3)
4. Human Interactions with Earth Systems (2–4)

### **4. Life Science (9–11)**

1. Structure and Function in Living Systems (2–4)
2. Interdependence Among Living Systems (2–4)
3. Evolution in Living Systems (1–3)
4. Human Interactions with Living Systems (2–4)