

**FORMAT OF THE CAPT SCIENCE TEST
THIRD GENERATION**

Item Distribution

	Content Knowledge	Scientific Inquiry, Literacy and Numeracy		
Strand	MC Items*	MC Items*	CR Items*	Points
I. Energy Transformations	8	4	1	15
II. Chemical Structures & Properties	8	4	1	15
III. Global Interdependence	8	4	1	15
IV. Cell Chemistry & Biotechnology	8	4	1	15
V. Genetics, Evolution & Biodiversity	8	4	1	15
Totals	40 MC Items	20 MC Items	5 CR Items	75 Points

- Each multiple-choice item is worth 1 point. Each constructed response item is worth 3 points.

General Test Format

There will be a total of 65 test questions: 60 multiple choice and 5 constructed response items.

Each content strand will be assessed by 13 items: 12 multiple-choice and 1 constructed response item. Eight of the multiple-choice items will assess content knowledge and 4 will assess scientific inquiry, literacy and numeracy.

Test Scoring

The selected response items will be scored electronically as correct or incorrect. Constructed response items will be hand-scored by trained readers using a 4-point scale (0-3).

Curriculum-Embedded Performance Tasks

SDE will develop a performance task for each of the five strands in the science framework for grades 9-10. Districts would be encouraged to utilize these tasks when

their curricula address the Content Standard related to each task. The five constructed response items on the written test would assess scientific inquiry, literacy and numeracy in the same contexts as the tasks. These constructed response items would total 15 points or 20% of the total test.

Reporting

A Total Science Score will be reported based on all 75 points. In addition, the following subscores will be reported:

• Energy Transformation	15 points	20%
• Chemical Structures and Properties	15 points	20%
• Global Interdependence	15 points	20 %
• Cell Chemistry and Biotechnology	15 points	20%
• Genetics, Evolution and Biodiversity	15 points	20%
• Content Knowledge	40 points	53%
• Scientific Inquiry, Literacy and Numeracy	35 points	47%

Testing Time

The science test will be divided into two sessions, each 50 minutes in length.

