

Starting 2021-2022 School Year



Mississippi Academic Assessment Program (MAAP)

BIOLOGY

Revised Blueprints

MISSISSIPPI DEPARTMENT OF EDUCATION

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Assessment Blueprint Biology

This blueprint describes the content and structure of an assessment and defines the ideal percentage of operational test items by reporting category for the Mississippi Academic Assessment Program (MAAP).

Content Strand/Disciplinary Core Idea	MS CCRS Standards Available for Assessment		Percentage of Points by Reporting Category
Cells and Energy			27% – 50%
Cells as a System	BIO.1A; BIO.1B; BIO.1C; BIO.1D; BIO.1E (14 objectives)		
Energy Transfer	BIO.2 (4 objectives)		
Heredity and Evolution			25%-38%
Reproduction & Heredity	BIO.3A; BIO.3B; BIO.3C (11 objectives)		
Adaptations and Evolution	BIO.4 (6 objectives)		
Interdependence of Organisms and Their Environments	BIO.5 (7 objectives)		13%-17%
Operational Items	55	Total Points	60
			100%
Field Test Items	10	Total Testing Time	180 Minutes (3 Hours)
Total Items	65		

- The Depth of Knowledge (DOK) level of items across the operational test form will be tracked to have as much variety as possible. The goal is for 65-85% of the items on the form to be DOK level 2 and approximately 5-10% of the items on the form to be DOK level 1 and DOK level 3 combined. However, we recognize that standard distribution, item types, and item statistics take priority when building the form.
- All science assessments will utilize an embedded field-test design and will consist of
 - Multiple Choice (MC) items including 1 answer/4 options and multi-select 2-4 answers/many options; and
 - Technology-Enhanced (TE) items.
- The TE items are designed to elicit evidence of a broad range of student understanding; student interacts with enhanced features of these computer-delivered, **auto-scorable** test items to show understanding of skills and concepts; includes drag-and-drop, hot-spot, bar graphs, data displays, matching interactions, text highlights, text entry, and drop-down menus. These items are scored on a 0-1 or 0-2 point scale using item-specific scoring rules.