

PSSA Science Test Design

The PSSA Science test plan shown in the following table is organized by grade and broken down between multiple-choice (MC) and open-ended (OE) items. Core items are also distinguished from items that serve the role of psychometric use (PU) and field test (FT). The following tables summarize the Science test design.

Standard Operational Science High-Level Test Plan per Form

Grade	Multiple Choice (MC)			Open Ended (OE)			Total Core Items	Total Core Points
	Core	Psychometric Use	Embedded FT	Core	Psychometric Use	Embedded FT		
4	38	2	6	5	0	1	38 MC 5 OE	48
8	34 + 4 scenario-based	2	4 + 4 scenario-based	5	0	1	38 MC 5 OE	48

Science PSSA Test Content Blueprints

The content blueprints for the PAS-based PSSA science assessment are shown in the following tables. The blueprint is organized around four Reporting Categories based on the expressed emphasis contained within the PAS, including three under Science Content. The four corresponding Reporting Categories are:

- A = The Nature of Science
- B = Biological Sciences
- C = Physical Sciences
- D = Earth & Space Sciences

PAS-based PSSA Science Blueprint: Percent of the Core by Reporting Category by Grade

Area	Reporting Category	Grade	
		4	8
The Nature of Science	A	50%	50%
Science Content	B	16%–17%	16%–17%
	C	16%–17%	16%–17%
	D	16%–17%	16%–17%
All Areas Total		100%	100%

PAS-based PSSA Science Blueprint: Points by Reporting Category by Grade

Area	Reporting Category	Grade	
		4	8
The Nature of Science	A	24 pts	24 pts
Science Content	B	8 pts	8 pts
	C	8 pts	8 pts
	D	8 pts	8 pts
All Areas Total		48 pts	48 pts

Science Test Development Design

As shown in the operational layout tables below, the PSSA Science test are two (2) sections starting. Due to the use of scenarios, the design for grade 4 differs from the design of grade 8. Scenarios are used at grade 8 only. At both grade 4 and grade 8, the PSSA Science core can be described as:

38 core MC items	38 points
5 core 2 pt OE items	10 points
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Total	48 points

Science Operational Section Layout Plan for Grade 4

Section	Content Emphasis	Number of MC	Number of OE	Estimated Section Testing Time (in minutes)
1	Science	23	3	38
2	Science	23	3	38

Science Operational Section Layout Plan for Grade 8

Section	Content Emphasis	Number of MC	Number of OE	Estimated Section Testing Time (in minutes)
1	Science	24	3	45
2	Science	24	3	45