

Pre-Formatted Reports: Benchmark Test Item Analysis - New Format

Data Selections

Institution(s): All School Types, All Schools
Benchmark Administration: 10/28/14, 2014-2015 BA1 8th Science
Trend Profile: 2014-2015
Subject: Life and Physical Sciences
Test Focus: Life and Physical Sciences
Test Level: All Benchmark Test Levels
Test Category: District Benchmark
Grade: All Grade Levels
Enrollment: Current

Number of questions: 35
 Number of test-taking students: 1565

Student Responses

Question - Type	Correct		Incorrect	Most Common Mistake		Point Value	Points Achieved / Possible	P-Value / Item Mean	Discrimination
	Rate	Value	Total Rate	Rate	Value				
1 - Multiple Choice	68%	C	32%	15%	B	1	1066 / 1565	0.68	0.40
2 - Multiple Choice	77%	B	23%	9%	C	1	1211 / 1565	0.77	0.44
3 - Multiple Choice	35%	D	65%	28%	C	1	553 / 1565	0.35	0.49
4 - Multiple Choice	62%	B	38%	26%	A	1	971 / 1565	0.62	0.47
5 - Multiple Choice	19%	B	81%	60%	A	1	300 / 1565	0.19	0.05
6 - Multiple Choice	59%	C	41%	18%	A	1	931 / 1565	0.59	0.46
7 - Multiple Choice	49%	B	51%	19%	C	1	762 / 1565	0.49	0.28
8 - Multiple Choice	54%	B	46%	27%	A	1	838 / 1565	0.53	0.43
9 - Multiple Choice	49%	C	51%	22%	B	1	767 / 1565	0.49	0.41
10 - Multiple Choice	41%	C	59%	30%	A	1	634 / 1565	0.40	0.34
11 - Multiple Choice	61%	B	39%	23%	D	1	950 / 1565	0.61	0.45
12 - Multiple Choice	70%	A	30%	21%	C	1	1095 / 1565	0.70	0.32
13 - Multiple Choice	74%	B	26%	16%	C	1	1152 / 1565	0.74	0.36
14 - Multiple Choice	85%	D	15%	9%	C	1	1325 / 1565	0.85	0.41
15 - Multiple Choice	35%	B	65%	33%	D	1	546 / 1565	0.35	0.30
16 - Multiple Choice	60%	A	40%	20%	C	1	934 / 1565	0.60	0.48
17 - Multiple Choice	67%	B	33%	26%	A	1	1046 / 1565	0.67	0.39

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18 - Multiple Choice	54%	B	46%	18%	C	1	848 / 1565	0.54	0.40
19 - Multiple Choice	40%	B	60%	31%	A	1	626 / 1565	0.40	0.38
20 - Multiple Choice	32%	C	68%	39%	D	1	498 / 1565	0.32	0.25
21 - Multiple Choice	76%	C	24%	16%	B	1	1189 / 1565	0.76	0.35
22 - Multiple Choice	81%	A	19%	8%	C	1	1269 / 1565	0.81	0.45
23 - Multiple Choice	64%	C	36%	28%	B	1	1009 / 1565	0.64	0.24
24 - Multiple Choice	63%	D	37%	15%	A	1	986 / 1565	0.63	0.56
25 - Multiple Choice	42%	C	58%	34%	D	1	654 / 1565	0.42	0.41
26 - Multiple Choice	58%	D	42%	24%	A	1	908 / 1565	0.58	0.37
27 - Multiple Choice	43%	C	57%	27%	B	1	675 / 1565	0.43	0.33
28 - Multiple Choice	46%	D	54%	32%	C	1	724 / 1565	0.46	0.42
29 - Multiple Choice	28%	D	72%	30%	C	1	437 / 1565	0.28	0.29
30 - Multiple Choice	33%	C	67%	25%	A	1	519 / 1565	0.33	0.24
31 - Multiple Choice	30%	C	70%	42%	D	1	474 / 1565	0.30	0.27
32 - Multiple Choice	50%	A	50%	20%	C	1	778 / 1565	0.50	0.47
33 - Multiple Choice	52%	B	48%	24%	C	1	809 / 1565	0.52	0.45
34 - Multiple Choice	56%	A	44%	26%	C	1	879 / 1565	0.56	0.37
35 - Multiple Choice	35%	A	65%	27%	C	1	541 / 1565	0.35	0.21
Summary	53%		47%				826 / 1565		

P-value represents an item's difficulty as evaluated by dividing the total number of correct responses by the total number of students tested. P-value is calculated for true/false, multiple choice, gridded or hot spot-single response items.

Item Mean is the average score for student responses to an open response question or to a multi-part question. Item Mean is calculated for inline response, matching or hot spot-multiple selections items.

Discrimination or Item Total Score Correlation is the correlation between the question score and the overall test score and indicates the extent to which success on an item corresponds to success on the test.

Standards Alignment to NC Standards

Question	ID	Standard Description
1 - Multiple Choice	NCES.8.P.2.1	Explain the environmental consequences of the various methods of obtaining, transforming and distributing energy.
2 - Multiple Choice	NCES.8.P.1.1	Classify matter as elements, compounds, or mixtures based on how the atoms are packed together in arrangements.
3 - Multiple Choice	NCES.8.P.1.2	Explain how the physical properties of elements and their reactivity have been used to produce the current model of the Periodic Table of elements.
4 - Multiple Choice	NCES.8.P.1.2	Explain how the physical properties of elements and their reactivity have

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been used to produce the current model of the Periodic Table of elements.

5 - Multiple Choice	NCES.8.P.1.1	Classify matter as elements, compounds, or mixtures based on how the atoms are packed together in arrangements.
6 - Multiple Choice	NCES.8.P.1.3	Compare physical changes such as size, shape and state to chemical changes that are the result of a chemical reaction to include changes in temperature, color, formation of a gas or precipitate.
7 - Multiple Choice	NCES.8.P.1.3	Compare physical changes such as size, shape and state to chemical changes that are the result of a chemical reaction to include changes in temperature, color, formation of a gas or precipitate.
8 - Multiple Choice	NCES.8.P.1.3	Compare physical changes such as size, shape and state to chemical changes that are the result of a chemical reaction to include changes in temperature, color, formation of a gas or precipitate.
9 - Multiple Choice	NCES.8.P.1.4	Explain how the idea of atoms and a balanced chemical equation support the law of conservation of mass.
10 - Multiple Choice	NCES.8.P.1.4	Explain how the idea of atoms and a balanced chemical equation support the law of conservation of mass.
11 - Multiple Choice	NCES.8.P.1.2	Explain how the physical properties of elements and their reactivity have been used to produce the current model of the Periodic Table of elements.
12 - Multiple Choice	NCES.8.P.1.3	Compare physical changes such as size, shape and state to chemical changes that are the result of a chemical reaction to include changes in temperature, color, formation of a gas or precipitate.
13 - Multiple Choice	NCES.8.P.1.1	Classify matter as elements, compounds, or mixtures based on how the atoms are packed together in arrangements.
14 - Multiple Choice	NCES.8.P.1.3	Compare physical changes such as size, shape and state to chemical changes that are the result of a chemical reaction to include changes in temperature, color, formation of a gas or precipitate.
15 - Multiple Choice	NCES.8.P.1.1	Classify matter as elements, compounds, or mixtures based on how the atoms are packed together in arrangements.
16 - Multiple Choice	NCES.8.P.1.2	Explain how the physical properties of elements and their reactivity have been used to produce the current model of the Periodic Table of elements.
17 - Multiple Choice	NCES.8.P.1.2	Explain how the physical properties of elements and their reactivity have been used to produce the current model of the Periodic Table of elements.
18 - Multiple Choice	NCES.8.P.1.1	Classify matter as elements, compounds, or mixtures based on how the atoms are packed together in arrangements.
19 - Multiple Choice	NCES.8.P.1.4	Explain how the idea of atoms and a balanced chemical equation support the law of conservation of mass.
20 - Multiple Choice	NCES.8.P.1.1	Classify matter as elements, compounds, or mixtures based on how the atoms are packed together in arrangements.
21 - Multiple Choice	NCES.8.P.1.1	Classify matter as elements, compounds, or mixtures based on how the atoms are packed together in arrangements.
22 - Multiple Choice	NCES.8.P.1.2	Explain how the physical properties of elements and their reactivity have been used to produce the current model of the Periodic Table of elements.
23 - Multiple Choice	NCES.8.L.3.1	Explain how factors such as food, water, shelter and space affect populations in an ecosystem.
24 - Multiple Choice	NCES.8.P.1.2	Explain how the physical properties of elements and their reactivity have been used to produce the current model of the Periodic Table of elements.
25 - Multiple Choice	NCES.8.P.1.2	Explain how the physical properties of elements and their reactivity have been used to produce the current model of the Periodic Table of elements.

26 - Multiple Choice NCES.8.P.2.2	Explain the implications of the depletion of renewable and nonrenewable energy resources and the importance of conservation.
27 - Multiple Choice NCES.8.P.2.1	Explain the environmental consequences of the various methods of obtaining, transforming and distributing energy.
28 - Multiple Choice NCES.8.P.2.2	Explain the implications of the depletion of renewable and nonrenewable energy resources and the importance of conservation.
29 - Multiple Choice NCES.8.P.1.1	Classify matter as elements, compounds, or mixtures based on how the atoms are packed together in arrangements.
30 - Multiple Choice NCES.8.P.1.2	Explain how the physical properties of elements and their reactivity have been used to produce the current model of the Periodic Table of elements.
31 - Multiple Choice NCES.8.P.2.1	Explain the environmental consequences of the various methods of obtaining, transforming and distributing energy.
32 - Multiple Choice NCES.8.P.1.4	Explain how the idea of atoms and a balanced chemical equation support the law of conservation of mass.
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