

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

Data Selections

Institution(s): All School Types, All Schools
Benchmark Administration: 09/03/14, 2014-2015 Baseline Science 5
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: Total for 2014-2015

Number of questions: 40
 Number of test-taking students: 1271

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	49%	B	51%	29%	A	1	617 / 1271	0.48	0.26
2 - Multiple Choice	17%	C	83%	43%	B	1	217 / 1271	0.17	0.18
3 - Multiple Choice	42%	C	58%	24%	D	1	535 / 1271	0.41	0.28
4 - Multiple Choice	87%	D	13%	5%	B	1	1102 / 1271	0.86	0.35
5 - Multiple Choice	34%	D	66%	41%	B	1	433 / 1271	0.33	0.23
6 - Multiple Choice	45%	B	55%	48%	D	1	577 / 1271	0.45	0.09
7 - Multiple Choice	37%	C	63%	28%	A	1	475 / 1271	0.37	0.22
8 - Multiple Choice	54%	B	46%	21%	C	1	687 / 1271	0.54	0.24
9 - Multiple Choice	47%	C	53%	22%	A	1	595 / 1271	0.47	0.30
10 - Multiple Choice	23%	D	77%	36%	A	1	292 / 1271	0.23	0.19
11 - Multiple Choice	47%	A	53%	27%	C	1	599 / 1271	0.47	0.31
12 - Multiple Choice	44%	B	56%	32%	C	1	557 / 1271	0.43	0.17
13 - Multiple Choice	51%	C	49%	29%	B	1	643 / 1271	0.50	0.41
14 - Multiple Choice	26%	C	74%	28%	D	1	329 / 1271	0.26	0.11
15 - Multiple Choice	66%	D	34%	17%	A	1	833 / 1271	0.65	0.33
16 - Multiple Choice	27%	B	73%	40%	C	1	337 / 1271	0.27	0.08
17 - Multiple Choice	73%	A	27%	14%	D	1	926 / 1271	0.73	0.41
18 - Multiple Choice	48%	D	52%	21%	B	1	609 / 1271	0.47	0.45
19 - Multiple Choice	47%	A	53%	24%	C	1	596 / 1271	0.46	0.38
20 - Multiple Choice	38%	B	62%	35%	C	1	483 / 1271	0.38	0.37

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21 - Multiple Choice	66%	D	34%	18%	C	1	841 / 1271	0.65	0.50
22 - Multiple Choice	50%	A	50%	26%	C	1	633 / 1271	0.49	0.20
23 - Multiple Choice	68%	C	32%	13%	A	1	865 / 1271	0.67	0.43
24 - Multiple Choice	34%	D	66%	41%	B	1	436 / 1271	0.34	0.31
25 - Multiple Choice	28%	D	72%	33%	C	1	360 / 1271	0.28	0.19
26 - Multiple Choice	57%	A	43%	20%	D	1	723 / 1271	0.57	0.31
27 - Multiple Choice	56%	A	44%	29%	C	1	717 / 1271	0.56	0.43
28 - Multiple Choice	23%	A	77%	52%	C	1	291 / 1271	0.22	0.08
29 - Multiple Choice	48%	B	52%	21%	A	1	612 / 1271	0.47	0.44
30 - Multiple Choice	38%	C	62%	26%	D	1	478 / 1271	0.37	0.29
31 - Multiple Choice	36%	B	64%	26%	C	1	457 / 1271	0.36	0.39
32 - Multiple Choice	39%	D	61%	33%	A	1	501 / 1271	0.39	0.39
33 - Multiple Choice	41%	C	59%	23%	B	1	515 / 1271	0.40	0.18
34 - Multiple Choice	46%	D	54%	36%	A	1	581 / 1271	0.45	0.46
35 - Multiple Choice	87%	A	13%	6%	B	1	1106 / 1271	0.87	0.37
36 - Multiple Choice	28%	A	72%	41%	C	1	357 / 1271	0.28	0.10
37 - Multiple Choice	69%	C	31%	12%	A	1	881 / 1271	0.68	0.34
38 - Multiple Choice	60%	D	40%	20%	B	1	765 / 1271	0.59	0.43
39 - Multiple Choice	35%	B	65%	22%	C	1	444 / 1271	0.35	0.18
40 - Multiple Choice	36%	B	64%	46%	A	1	453 / 1271	0.35	0.23
Summary	46%		54%				586 / 1271		

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.5.L.1.2	Compare the major systems of the human body (digestive, respiratory, circulatory, muscular, skeletal, and cardiovascular) in terms of their functions necessary for life.
2 - Multiple Choice	NCES.5.P.2.1	Explain how the sun's energy impacts the processes of the water cycle (including, evaporation, transpiration, condensation, precipitation and runoff).

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6 - Multiple Choice	NCES.5.P.2.1	Explain how the sun's energy impacts the processes of the water cycle (including, evaporation, transpiration, condensation, precipitation and runoff).
7 - Multiple Choice	NCES.5.P.3.1	Explain the effects of the transfer of heat (either by direct contact or at a distance) that occurs between objects at different temperatures. (conduction, convection or radiation).
8 - Multiple Choice	NCES.5.P.2.3	Summarize properties of original materials, and the new material(s) formed, to demonstrate that a change has occurred.
9 - Multiple Choice	NCES.5.P.2.3	Summarize properties of original materials, and the new material(s) formed, to demonstrate that a change has occurred.
10 - Multiple Choice	NCES.5.P.2.3	Summarize properties of original materials, and the new material(s) formed, to demonstrate that a change has occurred.
11 - Multiple Choice	NCES.5.L.2.2	Classify the organisms within an ecosystem according to the function they serve: producers, consumers, or decomposers (biotic factors).
12 - Multiple Choice	NCES.5.L.3.1	Explain why organisms differ from or are similar to their parents based on the characteristics of the organism.
13 - Multiple Choice	NCES.5.L.3.1	Explain why organisms differ from or are similar to their parents based on the characteristics of the organism.
14 - Multiple Choice	NCES.5.L.3.2	Give examples of likenesses that are inherited and some that are not.
15 - Multiple Choice	NCES.5.L.3.2	Give examples of likenesses that are inherited and some that are not.
16 - Multiple Choice	NCES.5.L.3.2	Give examples of likenesses that are inherited and some that are not.
17 - Multiple Choice	NCES.5.P.1.4	Predict the effect of a given force or a change in mass on the motion of an object.
18 - Multiple Choice	NCES.5.P.1.1	Explain how factors such as gravity, friction, and change in mass affect the motion of objects.
19 - Multiple Choice	NCES.5.L.2.2	Classify the organisms within an ecosystem according to the function they serve: producers, consumers, or decomposers (biotic factors).
20 - Multiple Choice	NCES.5.L.2.3	Infer the effects that may result from the interconnected relationship of plants and animals to their ecosystem.
21 - Multiple Choice	NCES.5.P.2.1	Explain how the sun's energy impacts the processes of the water cycle (including, evaporation, transpiration, condensation, precipitation and runoff).
22 - Multiple Choice	NCES.5.E.1.2	Predict upcoming weather events from weather data collected through observation and measurements.
23 - Multiple Choice	NCES.5.E.1.2	Predict upcoming weather events from weather data collected through observation and measurements.
24 - Multiple Choice	NCES.5.P.2.1	Explain how the sun's energy impacts the processes of the water cycle (including, evaporation, transpiration, condensation, precipitation and runoff).
25 - Multiple Choice	NCES.5.E.1.2	Predict upcoming weather events from weather data collected through observation and measurements.
26 - Multiple Choice	NCES.5.P.1.1	Explain how factors such as gravity, friction, and change in mass affect the motion of objects.
27 - Multiple Choice	NCES.5.P.1.2	Infer the motion of objects in terms of how far they travel in a certain amount of time and the direction in which they travel.

28 - Multiple Choice NCES.5.P.2.1	Explain how the sun's energy impacts the processes of the water cycle (including, evaporation, transpiration, condensation, precipitation and runoff).
29 - Multiple Choice NCES.5.L.2.2	Classify the organisms within an ecosystem according to the function they serve: producers, consumers, or decomposers (biotic factors).
30 - Multiple Choice NCES.5.E.1.2	Predict upcoming weather events from weather data collected through observation and measurements.
31 - Multiple Choice NCES.5.P.2.1	Explain how the sun's energy impacts the processes of the water cycle (including, evaporation, transpiration, condensation, precipitation and runoff).
32 - Multiple Choice NCES.5.E.1.3	Explain how global patterns such as the jet stream and water currents influence local weather in measurable terms such as temperature, wind direction and speed, and precipitation.
33 - Multiple Choice NCES.5.P.1.4	Predict the effect of a given force or a change in mass on the motion of an object.
34 - Multiple Choice NCES.5.P.1.1	Explain how factors such as gravity, friction, and change in mass affect the motion of objects.
35 - Multiple Choice NCES.5.E.1.3	Explain how global patterns such as the jet stream and water currents influence local weather in measurable terms such as temperature, wind direction and speed, and precipitation.
36 - Multiple Choice NCES.5.L.1.2	Compare the major systems of the human body (digestive, respiratory, circulatory, muscular, skeletal, and cardiovascular) in terms of their functions necessary for life.
37 - Multiple Choice NCES.5.L.1.2	Compare the major systems of the human body (digestive, respiratory, circulatory, muscular, skeletal, and cardiovascular) in terms of their functions necessary for life.
38 - Multiple Choice NCES.5.L.1.2	Compare the major systems of the human body (digestive, respiratory, circulatory, muscular, skeletal, and cardiovascular) in terms of their functions necessary for life.
39 - Multiple Choice NCES.5.L.1.2	Compare the major systems of the human body (digestive, respiratory, circulatory, muscular, skeletal, and cardiovascular) in terms of their functions necessary for life.
40 - Multiple Choice NCES.5.L.1.1	Explain why some organisms are capable of surviving as a single cell while others require many cells that are specialized to survive.