

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

Data Selections

Institution(s): All School Types,All Schools
Benchmark Administration: 10/27/14, 2014-15 Mid-Semester Earth 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: 40
 Number of test-taking students: 971

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	52%	D	48%	19%	A	1	503 / 971	0.52	0.43
2 - Multiple Choice	76%	C	24%	13%	D	1	742 / 971	0.76	0.23
3 - Multiple Choice	36%	D	64%	44%	A	1	347 / 971	0.36	0.37
4 - Multiple Choice	38%	A	62%	30%	C	1	372 / 971	0.38	0.46
5 - Multiple Choice	10%	B	90%	69%	D	1	93 / 971	0.10	0.00
6 - Multiple Choice	65%	A	35%	13%	B	1	635 / 971	0.65	0.41
7 - Multiple Choice	60%	B	40%	25%	D	1	586 / 971	0.60	0.40
8 - Multiple Choice	68%	D	32%	20%	B	1	662 / 971	0.68	0.48
9 - Multiple Choice	44%	A	56%	20%	D	1	423 / 971	0.44	0.35
10 - Multiple Choice	76%	B	24%	8%	A	1	738 / 971	0.76	0.50
11 - Multiple Choice	87%	C	13%	3%	D	1	845 / 971	0.87	0.47
12 - Multiple Choice	51%	B	49%	24%	C	1	492 / 971	0.51	0.38
13 - Multiple Choice	77%	D	23%	9%	A	1	750 / 971	0.77	0.43
14 - Multiple Choice	34%	A	66%	29%	C	1	331 / 971	0.34	0.28
15 - Multiple Choice	55%	B	45%	22%	A	1	529 / 971	0.54	0.46
16 - Multiple Choice	72%	C	28%	9%	D	1	700 / 971	0.72	0.61
17 - Multiple Choice	38%	B	62%	42%	C	1	373 / 971	0.38	0.20
18 - Multiple Choice	71%	B	29%	9%	D	1	690 / 971	0.71	0.59
19 - Multiple Choice	65%	D	35%	11%	C	1	635 / 971	0.66	0.58
20 - Multiple Choice	65%	D	35%	13%	C	1	634 / 971	0.65	0.46

NORTH CAROLINA DEPARTMENT OF PUBLIC INSTRUCTION Reformatted Reports

21 - Multiple Choice	49%	A	51%	18%	B	1	472 / 971	0.49	0.28
22 - Multiple Choice	87%	C	13%	6%	B	1	843 / 971	0.87	0.44
23 - Multiple Choice	72%	D	28%	8%	C	1	695 / 971	0.72	0.63
24 - Multiple Choice	33%	A	67%	42%	B	1	318 / 971	0.33	0.37
25 - Multiple Choice	62%	D	38%	12%	A	1	602 / 971	0.62	0.59
26 - Multiple Choice	87%	A	13%	4%	B	1	844 / 971	0.87	0.46
27 - Multiple Choice	68%	B	32%	14%	A	1	655 / 971	0.67	0.57
28 - Multiple Choice	61%	D	39%	16%	B	1	593 / 971	0.61	0.49
29 - Multiple Choice	59%	B	41%	19%	A	1	573 / 971	0.59	0.29
30 - Multiple Choice	74%	C	26%	14%	B	1	718 / 971	0.74	0.55
31 - Multiple Choice	62%	B	38%	14%	A	1	597 / 971	0.62	0.38
32 - Multiple Choice	31%	C	69%	33%	A	1	297 / 971	0.31	0.14
33 - Multiple Choice	67%	D	33%	13%	A	1	647 / 971	0.67	0.53
34 - Multiple Choice	35%	A	65%	28%	C	1	343 / 971	0.35	0.40
35 - Multiple Choice	68%	B	32%	13%	A	1	662 / 971	0.68	0.44
36 - Multiple Choice	51%	C	49%	30%	D	1	490 / 971	0.51	0.38
37 - Multiple Choice	66%	A	34%	13%	D	1	643 / 971	0.66	0.51
38 - Multiple Choice	66%	A	34%	24%	D	1	638 / 971	0.66	0.39
39 - Multiple Choice	45%	D	55%	43%	B	1	433 / 971	0.45	0.51
40 - Multiple Choice	78%	B	22%	14%	A	1	757 / 971	0.78	0.49
Summary	59%		41%				573 / 971		

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.EEn.1.1.3	Explain how the sun produces energy which is transferred to the Earth by radiation.
2 - Multiple Choice	NCES.EEn.2.1.1	Explain how the rock cycle, plate tectonics, volcanoes, and earthquakes impact the lithosphere.
3 - Multiple Choice		Earth and Environmental
4 - Multiple Choice		Earth and Environmental
5 - Multiple Choice	NCES.EEn.2.1.2	Predict the locations of volcanoes, earthquakes, and faults based on information contained in a variety of maps.

6 - Multiple Choice	NCES.EEn.2.1.4	Explain the probability of and preparation for geohazards such as landslides, avalanches, earthquakes and volcanoes in a particular area based on available data.
7 - Multiple Choice	NCES.EEn.2.1.1	Explain how the rock cycle, plate tectonics, volcanoes, and earthquakes impact the lithosphere.
8 - Multiple Choice	NCES.EEn.2.1.1	Explain how the rock cycle, plate tectonics, volcanoes, and earthquakes impact the lithosphere.
9 - Multiple Choice	NCES.EEn.2.1.2	Predict the locations of volcanoes, earthquakes, and faults based on information contained in a variety of maps.
10 - Multiple Choice	NCES.EEn.2.1.3	Explain how natural actions such as weathering, erosion (wind, water and gravity), and soil formation affect Earth's surface.
11 - Multiple Choice	NCES.EEn.2.1.4	Explain the probability of and preparation for geohazards such as landslides, avalanches, earthquakes and volcanoes in a particular area based on available data.
12 - Multiple Choice	NCES.EEn.2.1.4	Explain the probability of and preparation for geohazards such as landslides, avalanches, earthquakes and volcanoes in a particular area based on available data.
13 - Multiple Choice	NCES.EEn.2.1.4	Explain the probability of and preparation for geohazards such as landslides, avalanches, earthquakes and volcanoes in a particular area based on available data.
14 - Multiple Choice	NCES.EEn.2.2.1	Explain the consequences of human activities on the lithosphere (such as mining, deforestation, agriculture, overgrazing, urbanization, and land use) past and present.
15 - Multiple Choice	NCES.EEn.2.2.1	Explain the consequences of human activities on the lithosphere (such as mining, deforestation, agriculture, overgrazing, urbanization, and land use) past and present.
16 - Multiple Choice	NCES.EEn.2.2.1	Explain the consequences of human activities on the lithosphere (such as mining, deforestation, agriculture, overgrazing, urbanization, and land use) past and present.
17 - Multiple Choice	NCES.EEn.2.2.2	Compare the various methods humans use to acquire traditional energy sources (such as peat, coal, oil, natural gas, nuclear fission, and wood).
18 - Multiple Choice	NCES.EEn.2.2.2	Compare the various methods humans use to acquire traditional energy sources (such as peat, coal, oil, natural gas, nuclear fission, and wood).
19 - Multiple Choice	NCES.EEn.2.2.2	Compare the various methods humans use to acquire traditional energy sources (such as peat, coal, oil, natural gas, nuclear fission, and wood).
20 - Multiple Choice	NCES.EEn.2.3.2	Explain how ground water and surface water interact.
21 - Multiple Choice	NCES.EEn.2.3.2	Explain how ground water and surface water interact.
22 - Multiple Choice	NCES.EEn.2.3.2	Explain how ground water and surface water interact.
23 - Multiple Choice	NCES.EEn.2.4.1	Evaluate human influences on freshwater availability.
24 - Multiple Choice	NCES.EEn.2.4.1	Evaluate human influences on freshwater availability.
25 - Multiple Choice	NCES.EEn.2.4.1	Evaluate human influences on freshwater availability.
26 - Multiple Choice	NCES.EEn.2.4.2	Evaluate human influences on water quality in North Carolina's river basins, wetlands and tidal environments.
27 - Multiple Choice	NCES.EEn.2.4.2	Evaluate human influences on water quality in North Carolina's river basins, wetlands and tidal environments.
28 - Multiple Choice	NCES.EEn.2.4.2	Evaluate human influences on water quality in North Carolina's river basins, wetlands and tidal environments.
29 - Multiple Choice	NCES.EEn.2.8.1	Evaluate alternative energy technologies for use in North Carolina.
30 - Multiple Choice	NCES.EEn.2.8.1	Evaluate alternative energy technologies for use in North Carolina.
31 - Multiple Choice	NCES.EEn.2.8.2	Critique conventional and sustainable agriculture and aquaculture practices in terms of their environmental impacts.
32 - Multiple Choice	NCES.EEn.2.8.2	Critique conventional and sustainable agriculture and aquaculture practices in terms of their environmental impacts.

33 - Multiple Choice NCES.EEn.2.8.2	Critique conventional and sustainable agriculture and aquaculture practices in terms of their environmental impacts.
34 - Multiple Choice NCES.EEn.2.8.3	Explain the effects of uncontrolled population growth on the Earth's resources.
35 - Multiple Choice NCES.EEn.2.8.3	Explain the effects of uncontrolled population growth on the Earth's resources.
36 - Multiple Choice NCES.EEn.2.8.3	Explain the effects of uncontrolled population growth on the Earth's resources.
37 - Multiple Choice NCES.EEn.2.8.4	Evaluate the concept of "reduce, reuse, recycle" in terms of impact on natural resources.
38 - Multiple Choice NCES.EEn.2.8.4	Evaluate the concept of "reduce, reuse, recycle" in terms of impact on natural resources.
39 - Multiple Choice NCES.EEn.2.8.4	Evaluate the concept of "reduce, reuse, recycle" in terms of impact on natural resources.
40 - Multiple Choice NCES.EEn.2.8.4	Evaluate the concept of "reduce, reuse, recycle" in terms of impact on natural resources.
