

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

Data Selections

Institution(s): All School Types, All Schools
Benchmark Administration: 10/28/14, 2014-15 BA 1 7th 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: 34
 Number of test-taking students: 8

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	38%	D	63%	25%	B	1	3 / 8	0.70	0.41
2 - Multiple Choice	25%	A	75%	50%	C	1	2 / 8	0.44	0.21
3 - Multiple Choice	13%	C	88%	38%	B	1	1 / 8	0.52	0.35
4 - Multiple Choice	25%	C	75%	38%	A	1	2 / 8	0.48	0.46
5 - Multiple Choice	25%	C	75%	63%	B	1	2 / 8	0.49	0.32
6 - Multiple Choice	63%	D	38%	25%	C	1	5 / 8	0.61	0.34
7 - Multiple Choice	0%	C	100%	63%	A	1	0 / 8	0.50	0.35
8 - Multiple Choice	13%	D	88%	50%	A	1	1 / 8	0.39	0.42
9 - Multiple Choice	50%	B	50%	25%	C	1	4 / 8	0.48	0.44
10 - Multiple Choice	50%	A	50%	25%	C	1	4 / 8	0.58	0.40
11 - Multiple Choice	25%	B	75%	25%	A	1	2 / 8	0.66	0.44
12 - Multiple Choice	13%	C	88%	63%	D	1	1 / 8	0.48	0.39
13 - Multiple Choice	63%	D	38%	25%	C	1	5 / 8	0.63	0.46
14 - Multiple Choice	13%	B	88%	50%	C	1	1 / 8	0.53	0.38
15 - Multiple Choice	38%	D	63%	38%	A	1	3 / 8	0.48	0.46
16 - Multiple Choice	25%	A	75%	63%	C	1	2 / 8	0.70	0.48
17 - Multiple Choice	63%	C	38%	25%	D	1	5 / 8	0.85	0.44
18 - Multiple Choice	50%	B	50%	25%	D	1	4 / 8	0.40	0.30
19 - Multiple Choice	38%	C	63%	38%	B	1	3 / 8	0.63	0.46
20 - Multiple Choice	63%	D	38%	25%	C	1	5 / 8	0.66	0.39

NORTH CAROLINA DEPARTMENT OF PUBLIC INSTRUCTION

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21 - Multiple Choice	50%	B	50%	25%	A	1	4 / 8	0.55	0.47
22 - Multiple Choice	38%	C	63%	38%	B	1	3 / 8	0.58	0.41
23 - Multiple Choice	25%	A	75%	38%	D	1	2 / 8	0.41	0.24
24 - Multiple Choice	0%	D	100%	38%	B	1	0 / 8	0.31	0.41
25 - Multiple Choice	0%	B	100%	50%	D	1	0 / 8	0.26	0.27
26 - Multiple Choice	50%	D	50%	25%	A	1	4 / 8	0.70	0.37
27 - Multiple Choice	13%	C	88%	50%	B	1	1 / 8	0.44	0.39
28 - Multiple Choice	50%	A	50%	25%	B	1	4 / 8	0.71	0.28
29 - Multiple Choice	38%	C	63%	38%	D	1	3 / 8	0.60	0.39
30 - Multiple Choice	50%	B	50%	25%	A	1	4 / 8	0.69	0.28
31 - Multiple Choice	38%	D	63%	38%	B	1	3 / 8	0.26	0.35
32 - Multiple Choice	38%	D	63%	38%	C	1	3 / 8	0.22	0.29
33 - Multiple Choice	13%	B	88%	50%	C	1	1 / 8	0.50	0.42
34 - Multiple Choice	25%	B	75%	50%	D	1	2 / 8	0.47	0.47
Summary	33%		67%				3 / 8		

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.7.E.1.1	Compare the composition, properties and structure of Earth's atmosphere to include: mixtures of gases and differences in temperature and pressure within layers.
2 - Multiple Choice	NCES.7.E.1.3	Explain the relationship between the movement of air masses, high and low pressure systems, and frontal boundaries to storms (including thunderstorms, hurricanes, and tornadoes) and other weather conditions that may result.
3 - Multiple Choice	NCES.7.E.1.3	Explain the relationship between the movement of air masses, high and low pressure systems, and frontal boundaries to storms (including thunderstorms, hurricanes, and tornadoes) and other weather conditions that may result.
4 - Multiple Choice	NCES.7.E.1.5	Explain the influence of convection, global winds and the jet stream on weather and climatic conditions.
5 - Multiple Choice	NCES.7.E.1.5	Explain the influence of convection, global winds and the jet stream on weather and climatic conditions.
6 - Multiple Choice	NCES.7.E.1.5	Explain the influence of convection, global winds and the jet stream on weather and climatic conditions.
7 - Multiple Choice	NCES.7.E.1.5	Explain the influence of convection, global winds and the jet stream on weather and climatic conditions.

NORTH CAROLINA DEPARTMENT OF PUBLIC INSTRUCTION

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8 - Multiple Choice NCES.7.E.1.5	Explain the influence of convection, global winds and the jet stream on weather and climatic conditions.
9 - Multiple Choice NCES.7.E.1.5	Explain the influence of convection, global winds and the jet stream on weather and climatic conditions.
10 - Multiple Choice NCES.7.E.1.5	Explain the influence of convection, global winds and the jet stream on weather and climatic conditions.
11 - Multiple Choice NCES.7.E.1.5	Explain the influence of convection, global winds and the jet stream on weather and climatic conditions.
12 - Multiple Choice NCES.7.E.1.5	Explain the influence of convection, global winds and the jet stream on weather and climatic conditions.
13 - Multiple Choice NCES.5.E.1.1	Compare daily and seasonal changes in weather conditions (including wind speed and direction, precipitation, and temperature) and patterns.
14 - Multiple Choice NCES.EEn.2.5.2	Explain the formation of typical air masses and the weather systems that result from air mass interactions.
15 - Multiple Choice NCES.7.E.1.3	Explain the relationship between the movement of air masses, high and low pressure systems, and frontal boundaries to storms (including thunderstorms, hurricanes, and tornadoes) and other weather conditions that may result.
16 - 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.
17 - Multiple Choice NCES.7.E.1.2	Explain how the cycling of water in and out of the atmosphere and atmospheric conditions relate to the weather patterns on Earth.
18 - Multiple Choice NCES.7.E.1.2	Explain how the cycling of water in and out of the atmosphere and atmospheric conditions relate to the weather patterns on Earth.
19 - Multiple Choice NCES.7.E.1.2	Explain how the cycling of water in and out of the atmosphere and atmospheric conditions relate to the weather patterns on Earth.
20 - Multiple Choice NCES.7.E.1.6	Conclude that the good health of humans requires: monitoring the atmosphere, maintaining air quality and stewardship.
21 - Multiple Choice NCES.7.E.1.3	Explain the relationship between the movement of air masses, high and low pressure systems, and frontal boundaries to storms (including thunderstorms, hurricanes, and tornadoes) and other weather conditions that may result.
22 - Multiple Choice NCES.7.E.1.2	Explain how the cycling of water in and out of the atmosphere and atmospheric conditions relate to the weather patterns on Earth.
23 - Multiple Choice NCES.7.E.1.4	Predict weather conditions and patterns based on information obtained from:
24 - Multiple Choice NCES.7.E.1.4	Predict weather conditions and patterns based on information obtained from:
25 - Multiple Choice NCES.7.E.1.3	Explain the relationship between the movement of air masses, high and low pressure systems, and frontal boundaries to storms (including thunderstorms, hurricanes, and tornadoes) and other weather conditions that may result.
26 - Multiple Choice NCES.7.E.1.3	Explain the relationship between the movement of air masses, high and low pressure systems, and frontal boundaries to storms (including thunderstorms, hurricanes, and tornadoes) and other weather conditions that may result.
27 - Multiple Choice NCES.7.E.1.3	Explain the relationship between the movement of air masses, high and low pressure systems, and frontal boundaries to storms (including thunderstorms, hurricanes, and tornadoes) and other weather conditions that may result.
28 - Multiple Choice NCES.7.E.1.6	Conclude that the good health of humans requires: monitoring the atmosphere, maintaining air quality and stewardship.
29 - Multiple Choice NCES.7.E.1.3	Explain the relationship between the movement of air masses, high and low pressure systems, and frontal boundaries to storms (including

	thunderstorms, hurricanes, and tornadoes) and other weather conditions that may result.
30 - Multiple Choice NCES.7.E.1.2	Explain how the cycling of water in and out of the atmosphere and atmospheric conditions relate to the weather patterns on Earth.
31 - Multiple Choice NCES.7.E.1.3	Explain the relationship between the movement of air masses, high and low pressure systems, and frontal boundaries to storms (including thunderstorms, hurricanes, and tornadoes) and other weather conditions that may result.
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34 - Multiple Choice NCES.7.E.1.5	Explain the influence of convection, global winds and the jet stream on weather and climatic conditions.