

**10th Science Ohio Graduation Test
Earth and Space Science Standard**

Benchmark A

Question 34	Spring 2009	B
Question 20	March 2008	D
Question 23	Spring 2005	B
Question 6	Spring 2006	D

Benchmark B

Question 6	Spring 2009	Score Point	Description							
		4 points	The student states two factors that influence the weather in Ohio and correctly explains the effect of each.							
		3 points	The student states two factors that influence the weather in Ohio and correctly explains the effect of one factor.							
		2 points	The student states two factors that influence the weather in Ohio OR The student states one factor that influences the weather in Ohio and explains the effect.							
		1 point	The student states or explains only one factor that influences the weather in Ohio. The response provides unrelated or unclear information.							
		0 points	The student response does not meet the criteria required to earn one point. The response indicates inadequate or no understanding of the task. It may only repeat information from the passage or prompt or provide incorrect or irrelevant information. The student may have written on a different topic or written, "I don't know."							
Question 21	Spring 2009	B								
Question 10	9 th Practice	C								
Question 24	Spring 2006	B								
Question 27	9 th Practice	B								
Question 15	Spring 2005	A								
Question 16	Spring 2005	C								
Question 17	Spring 2005	D								
Question 18	Spring 2005	<p align="center">Scoring Guidelines for Item 18:</p> <table border="0"> <tr> <td>Score point</td> <td>Description</td> </tr> <tr> <td>2 points</td> <td>The response correctly describes one similarity and one difference between biome W and the temperate forest.</td> </tr> <tr> <td>1 point</td> <td>The student correctly describes one similarity or one difference between biome W and the temperate forest.</td> </tr> <tr> <td>0 points</td> <td>The response demonstrates no understanding of the task. The response may provide incorrect information or be irrelevant to the task. The response may repeat information from the passage or prompt, or state "I don't know."</td> </tr> </table>	Score point	Description	2 points	The response correctly describes one similarity and one difference between biome W and the temperate forest.	1 point	The student correctly describes one similarity or one difference between biome W and the temperate forest.	0 points	The response demonstrates no understanding of the task. The response may provide incorrect information or be irrelevant to the task. The response may repeat information from the passage or prompt, or state "I don't know."
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Question 19	Spring	A								

	2005	
Question 20	Spring 2005	D
Question 10	9 th Practice	C
Question 6	March 2007	B
Question 24	March 2007	B

Benchmark C

Question 15	Spring 2009	B
Question 17	Spring 2009	A
Question 43	Spring 2009	A
Question 13	March 2008	A
Question 30	March 2008	D
Question 15	9 th Practice	B
Question 9	Spring 2006	A
Question 26	Spring 2005	B
Question 28	Spring 2006	C

**Continued
Benchmark D**

Question 6	March 2008	<table border="1"> <thead> <tr> <th>Score Point</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>4 points</td> <td>The student identifies two environmental consequences of rainforest destruction and explains the results of each.</td> </tr> <tr> <td>3 points</td> <td>The student identifies two environmental consequences of rainforest destruction and explains the result of one.</td> </tr> <tr> <td>2 points</td> <td>The student identifies two environmental consequences of rainforest destruction. OR The student identifies one environmental consequence of rainforest destruction and explains the result.</td> </tr> <tr> <td>1 point</td> <td>The student identifies one environmental consequence of rainforest destruction.</td> </tr> <tr> <td>0 points</td> <td>The student response does not meet the criteria to earn one point. The response indicates inadequate or no understanding of the task. It may only repeat information from the passage or prompt or provide incorrect or irrelevant information. The student may have written on a different topic or written "I don't know."</td> </tr> </tbody> </table>	Score Point	Description	4 points	The student identifies two environmental consequences of rainforest destruction and explains the results of each.	3 points	The student identifies two environmental consequences of rainforest destruction and explains the result of one.	2 points	The student identifies two environmental consequences of rainforest destruction. OR The student identifies one environmental consequence of rainforest destruction and explains the result.	1 point	The student identifies one environmental consequence of rainforest destruction.	0 points	The student response does not meet the criteria to earn one point. The response indicates inadequate or no understanding of the task. It may only repeat information from the passage or prompt or provide incorrect or irrelevant information. The student may have written on a different topic or written "I don't know."
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Question 31	Spring 2006	<p>Scoring Guidelines for Item 31:</p> <table border="1"> <thead> <tr> <th>Score Point</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>4 points</td> <td>The student response identifies two savings that result from recycling aluminum cans and explains an ecological benefit of each.</td> </tr> </tbody> </table>	Score Point	Description	4 points	The student response identifies two savings that result from recycling aluminum cans and explains an ecological benefit of each.								
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		<p>3 points The student response identifies two savings that result from recycling aluminum cans and explains an ecological benefit of one.</p> <p>2 points The student response identifies two savings that result from recycling aluminum cans but the explanations are either absent or unclear (e.g., "If you recycled aluminum cans, you wouldn't need as much aluminum for new cans because you could use the recycled aluminum. Also, all those recycled cans would not be going in the trash, so that is good for the environment."). OR The student response identifies one savings that results from recycling aluminum cans and explains an ecological benefit.</p> <p>1 point The student response identifies one savings that results from recycling aluminum cans but the explanation is either absent or unclear. OR The student response explains one ecological benefit.</p> <p>0 points The student response indicates inadequate or no understanding of the task. The response may provide incorrect or irrelevant information.</p>
Question 19	March 2007	<p>4 points The response demonstrates a complete understanding of the task by identifying two negative consequences of increased animal waste in lakes and waterways and describing how the increased waste results in each consequence.</p> <p>3 points The response demonstrates an understanding of the task by identifying two negative consequences of increased animal waste in lakes and waterways and describing how the increased waste results in one consequence. OR The response identifies one negative consequence of increased animal waste in lakes and waterways, describes how the increased waste results in the consequence and provides another description without identifying an consequence (e.g., "bacteria from the waste gets into the water").</p> <p>2 points The response demonstrates a partial understanding of the task by identifying two negative consequences of increased animal waste in lakes and waterways. OR The response identifies one negative consequence of increased animal waste in lakes and waterways and describes how the increased waste results in the consequence. OR The response provides two descriptions of negative consequences without actually identifying those consequences. The response is relevant to the task, but there may be gaps in focus.</p> <p>1 point The response identifies one negative consequence of increased animal waste in lakes and waterways. OR The response describes a negative consequence without actually identifying that consequence. The response fails to or omits significant aspects of the task and may provide unrelated or unclear information. There is little evidence of focus.</p> <p>0 points The response indicates inadequate or no understanding of the task. The response may provide incorrect or irrelevant information.</p>

Question 29	March 2007	C
Question 31	March 2007	A
Question 32	March 2007	D

Benchmark E

Question 30	Spring 2009	A												
Question 36	Spring 2009	C												
Question 38	Spring 2009	A												
Question 15	March 2008	A												
Question 38	March 2008	B												
Question 1	Spring 2006	A												
Question 18	9 th Practice	<table border="1"> <thead> <tr> <th>Score point</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>4 points</td> <td>The student identifies two effects of plate tectonics and explains how plate tectonics causes each effect.</td> </tr> <tr> <td>3 points</td> <td>The student identifies two effects of plate tectonics and explains how plate tectonics causes one of these effects. OR The student identifies two causes and one effect.</td> </tr> <tr> <td>2 points</td> <td>The student identifies two effects of plate tectonics but fails to or incorrectly explains how plate tectonics causes these effects. OR The student identifies one effect of plate tectonics and explains how plate tectonics causes this effect. OR The student identifies two causes.</td> </tr> <tr> <td>1 point</td> <td>The student identifies one effect of plate tectonics. OR The student identifies one cause.</td> </tr> <tr> <td>0 points</td> <td>The student response does not meet the criteria to earn one point. The response indicates inadequate or no understanding of the task. It may only repeat information from the passage or prompt or provide incorrect or irrelevant information. The student may have written on a different topic or written, "I don't know."</td> </tr> </tbody> </table>	Score point	Description	4 points	The student identifies two effects of plate tectonics and explains how plate tectonics causes each effect.	3 points	The student identifies two effects of plate tectonics and explains how plate tectonics causes one of these effects. OR The student identifies two causes and one effect.	2 points	The student identifies two effects of plate tectonics but fails to or incorrectly explains how plate tectonics causes these effects. OR The student identifies one effect of plate tectonics and explains how plate tectonics causes this effect. OR The student identifies two causes.	1 point	The student identifies one effect of plate tectonics. OR The student identifies one cause.	0 points	The student response does not meet the criteria to earn one point. The response indicates inadequate or no understanding of the task. It may only repeat information from the passage or prompt or provide incorrect or irrelevant information. The student may have written on a different topic or written, "I don't know."
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Question 25	9 th Practice	C												
Question 33	9 th Practice	B												
Question 38	9 th Practice	D												
Question 1	Spring 2005	C												
Question 22	Spring 2005	D												
Question 39	Spring 2006	C												
Question 35	March 2007	A												

Benchmark F

Question 4	March 2008	C
Question 22	March 2008	A
Question 41	March 2008	B
Question 2	Spring 2006	A
Question 3	Spring 2006	D

Question 4	Spring 2006		C
Question 20	9 th Practice		D
Question 8	Spring 2005		A
Question 34	Spring 2006		B
Question 18	March 2007		C
Question 38	March 2007		C
Question 36	Spring 2006		B

Benchmark G

Question 37	Spring 2006	Score Point Description	
		2 points	The student response describes one advantage and one disadvantage of using the 150% application of herbicide.
		1 point	The student response describes one advantage OR one disadvantage of using the 150% application of herbicide.
		0 points	The student response demonstrates no understanding of the task. The response may provide incorrect information or be irrelevant to the task.

Benchmark H

Question 8	Spring 2006		C
Question 35	Spring 2006		A
Question 38	Spring 2006		B