

**10th Science Ohio Graduation Test
Life Science Standard**

Benchmark A

Question 37	Spring 2005	B
Question 3	9 th Practice	D

Benchmark B

Question 38	Spring 2005	D
Question 19	9 th Practice	D

Benchmark C

Question 11	Spring 2005	A												
Question 12	Spring 2005	<p>Scoring Guidelines for Item 12:</p> <table border="0"> <thead> <tr> <th style="text-align: left;">Score point</th> <th style="text-align: left;">Description</th> </tr> </thead> <tbody> <tr> <td>4 points</td> <td>The response shows a correctly drawn Punnett square or a diagram of the cross. The response includes an accurate interpretation of the Punnett square. The comparison is completed by including a statement that the couple's children, based upon the given pedigree, do not match the numbers expected from the Punnett square.</td> </tr> <tr> <td>3 points</td> <td>The response shows a correctly drawn Punnett square or a diagram of the cross. The response interprets the pedigree or makes an accurate comparison between the Punnett square and the pedigree. OR The response shows a single error in the Punnett square but follows through by correctly interpreting the pedigree and makes an accurate comparison between the student's Punnett square and the pedigree.</td> </tr> <tr> <td>2 points</td> <td>The response shows a correctly drawn Punnett square or diagram of the cross. OR The response shows a single error in the Punnett square but follows through by correctly interpreting the Punnett square. OR The response fails to show a Punnett square but provides a correct interpretation and comparison with the results of the pedigree.</td> </tr> <tr> <td>1 point</td> <td>For example: "The pedigree shows three out of the four children as carriers. In a cross between a male BB parent and a female Bb parent, however, only 50% of the offspring would be expected to carry the gene." The response shows a single error in the Punnett square or other diagram of the cross. OR The response gives a correct interpretation of the Punnett square without attempting to draw one. OR The response gives a correct interpretation of the pedigree.</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 response shows a correctly drawn Punnett square or a diagram of the cross. The response includes an accurate interpretation of the Punnett square. The comparison is completed by including a statement that the couple's children, based upon the given pedigree, do not match the numbers expected from the Punnett square.	3 points	The response shows a correctly drawn Punnett square or a diagram of the cross. The response interprets the pedigree or makes an accurate comparison between the Punnett square and the pedigree. OR The response shows a single error in the Punnett square but follows through by correctly interpreting the pedigree and makes an accurate comparison between the student's Punnett square and the pedigree.	2 points	The response shows a correctly drawn Punnett square or diagram of the cross. OR The response shows a single error in the Punnett square but follows through by correctly interpreting the Punnett square. OR The response fails to show a Punnett square but provides a correct interpretation and comparison with the results of the pedigree.	1 point	For example: "The pedigree shows three out of the four children as carriers. In a cross between a male BB parent and a female Bb parent, however, only 50% of the offspring would be expected to carry the gene." The response shows a single error in the Punnett square or other diagram of the cross. OR The response gives a correct interpretation of the Punnett square without attempting to draw one. OR The response gives a correct interpretation of the pedigree.	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 13	Spring 2005		D
Question 14	Spring 2005		A
Question 29	9 th Practice		B
Question 30	9 th Practice	<p>Scoring Guidelines for Question 30</p> <p>Score point Description</p> <p>2 points The student predicts that all four boys would inherit the disease and explains how Y-linked inheritance differs from X-linked inheritance.</p> <p>1 point The student predicts that all four boys would inherit the disease.</p> <p>OR</p> <p>The student explains how Y-linked inheritance differs from X-linked inheritance.</p> <p>0 points The student response demonstrates no understanding of the task or concept. The response may provide an incorrect solution and supporting information may be totally irrelevant to the task. The student may repeat information from the passage or prompt or may have written "I don't know."</p>	
Question 31	9 th Practice		C
Question 32	9 th Practice		C

Benchmark D

Question 17	9 th Practice		C
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Benchmark E

Question 14	9 th Practice		B
Question 43	Spring 2005		C

Benchmark F

Question 9	9 th Practice		B
Question 34	9 th Practice		A
Question 9	Spring 2005		A

Benchmark J

Question 39	Spring 2005		D
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