


MISA Grade 8 Paper Release Form Answer Key Units 1 - 3

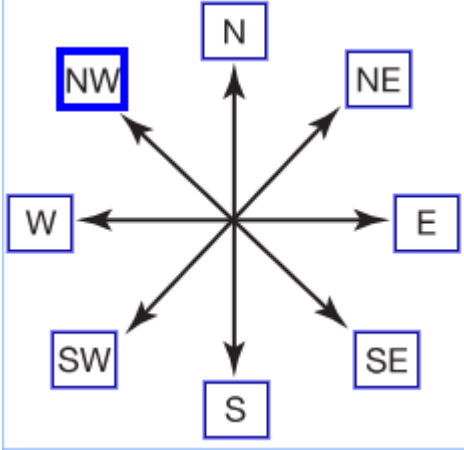
Unit 1

Item Number	Answer	NGSS Standard	Evidence Statement								
1	<p>A</p> <p><input checked="" type="radio"/> A. X Y</p> 	MS-PS2, MS-PS2-1	MS-PS2-1.1.a.ii								
2	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">Safety Feature</th> <th style="width: 50%;">Function</th> </tr> </thead> <tbody> <tr> <td>Bumper around entire car</td> <td>Reduces amount of force transmitted in a collision</td> </tr> <tr> <td>Padded steering wheel</td> <td>Provides cushion during a collision</td> </tr> <tr> <td>Seat belt</td> <td>Restricts motion during a collision</td> </tr> </tbody> </table>	Safety Feature	Function	Bumper around entire car	Reduces amount of force transmitted in a collision	Padded steering wheel	Provides cushion during a collision	Seat belt	Restricts motion during a collision	MS-PS2, MS-PS2-1	MS-PS2-1.3.a
Safety Feature	Function										
Bumper around entire car	Reduces amount of force transmitted in a collision										
Padded steering wheel	Provides cushion during a collision										
Seat belt	Restricts motion during a collision										
3	absorb, absorb	MS-PS2, MS-PS2-1	MS-PS2-1.1.a.iii								
4	D	MS-PS2, MS-PS2-1	MS-PS2-1.1.a.ii								
5	greater, toward	MS-PS2, MS-PS2-1	MS-PS2-1.2.a.ii.2								
6	Constructed response	MS-PS2, MS-PS2-1	MS-PS2-1.3.a								

Unit 2

Item Number	Answer	NGSS Standard	Evidence Statement
1	B, E	MS-LS1, MS-LS1-4	MS-LS1-4.4.a.iv
2	competition, negatively affect	MS-LS1, MS-LS1-5	MS-LS1-5.1.a
3	B, C, E	MS-LS1, MS-LS1-4	MS-LS1-4.1.a
4	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid #ccc; padding: 10px; width: 45%; background-color: #f9f9f9;"> <p style="text-align: center; margin: 0;">Increases Chances of Reproduction and Growth</p> <div style="border: 1px solid #add8e6; padding: 5px; margin: 5px; text-align: center;">planting a butterfly garden</div> <div style="border: 1px solid #add8e6; padding: 5px; margin: 5px; text-align: center;">planting fruit trees</div> </div> <div style="border: 1px solid #ccc; padding: 10px; width: 45%; background-color: #f9f9f9;"> <p style="text-align: center; margin: 0;">Decreases Chances of Reproduction and Growth</p> <div style="border: 1px solid #add8e6; padding: 5px; margin: 5px; text-align: center;">cutting down deciduous trees</div> <div style="border: 1px solid #add8e6; padding: 5px; margin: 5px; text-align: center;">spraying insecticides</div> </div> </div>	MS-LS1, MS-LS1-5	MS-LS1-5.2.a.iii
5	A, C	MS-LS1, MS-LS1-5	MS-LS1-5.2.a.i
6	Constructed response	MS-LS1, MS-LS1-4	MS-LS1-4.1.a

Unit 3

Item Number	Answer	NGSS Standard	Evidence Statement								
1	NW 	MS-ESS2, MS-ESS2-3	MS-ESS2-3.2.a								
2	decrease, farther from	MS-ESS2, MS-ESS2-2	MS-ESS2-2.3.a.v								
3	C	MS-ESS2, MS-ESS2-2	MS-ESS2-2.2.b								
4	<table border="1" data-bbox="350 989 870 1451"> <tr> <td data-bbox="350 989 505 1104">Occurred First</td> <td data-bbox="505 989 870 1104">Lava erupted from the ocean floor.</td> </tr> <tr> <td data-bbox="350 1104 505 1199">↓</td> <td data-bbox="505 1104 870 1199">Lava cooled and formed volcanic rock.</td> </tr> <tr> <td data-bbox="350 1199 505 1314">↓</td> <td data-bbox="505 1199 870 1314">The ocean floor moves away from the hotspot.</td> </tr> <tr> <td data-bbox="350 1314 505 1451">Occurred Last</td> <td data-bbox="505 1314 870 1451">Water eroded the land around the extinct volcano.</td> </tr> </table>	Occurred First	Lava erupted from the ocean floor.	↓	Lava cooled and formed volcanic rock.	↓	The ocean floor moves away from the hotspot.	Occurred Last	Water eroded the land around the extinct volcano.	MS-ESS2, MS-ESS2-2	MS-ESS2-2.3.a.iv
Occurred First	Lava erupted from the ocean floor.										
↓	Lava cooled and formed volcanic rock.										
↓	The ocean floor moves away from the hotspot.										
Occurred Last	Water eroded the land around the extinct volcano.										
5	less than, larger, a smaller amount of erosion than	MS-ESS2, MS-ESS2-3	MS-ESS2-3.2.a								
6	Constructed response	MS-ESS2, MS-ESS2-2	MS-ESS2-2.3.a.iv								