

The following pages include the answer key for all machine-scored items. Refer to the separate documents for all hand-scored items as indicated in the answer key.

**Section 1**

<b>Item Number</b>	<b>Answer Key</b>	<b>Performance Expectation</b>
1.	D	5-LS2-1
2.	D	5-LS2-1
3.	D,E	5-LS2-1
4.	D	5-LS1-1
5.	B	5-LS1-1
6.	Refer to Maryland Integrated Science Assessment Rubrics	5-LS2-1
7.	D	4-PS3-2

*Table continues on next page.*

## Section 1, continued

Item Number	Answer Key	Performance Expectation
8.	<p>The part of the circuit that “Provides the energy of motion to the propeller” is the: Motor</p> <p>The part of the circuit that “Opens and closes the circuit” is the: Switch</p> <p>The part of the circuit that “Provides energy to the circuit” is the: Battery</p>	4-PS3-4
9.	A	4-PS3-2
10.	B	4-PS3-2
11.	<p>“Evidence of Energy Transfer in the Investigation” includes:</p> <ul style="list-style-type: none"><li>1) The car moved.</li><li>2) The propeller moved.</li></ul> <p>Answers can be in any order in the box.</p>	4-PS3-2
12.	Refer to Maryland Integrated Science Assessment Rubrics	4-PS3-4

## Section 2

Item Number	Answer Key	Performance Expectation
1.	C	5-ESS2-2
2.	B	5-ESS2-1
3.	C	5-ESS2-1
4.	<b>Part A:</b> C <b>Part B:</b> D	5-ESS2-1
5.	B	5-ESS2-2
6.	Refer to Maryland Integrated Science Assessment Rubrics	5-ESS2-2
7.	A,C	3-5-ETS1-3
8.	B	3-PS2-3
9.	D	3-PS2-3
10.	C	3-PS2-3
11.	C	3-5-ETS1-3
12.	Refer to Maryland Integrated Science Assessment Rubrics	3-5-ETS1-3

### Section 3

Item Number	Answer Key	Performance Expectation
1.	B	4-ESS3-1
2.	B, C, F	4-ESS3-1
3.	D	4-ESS3-1
4.	B	5-ESS3-1
5.	Number of metric tons of carbon dioxide not emitted: 16,500 Equivalent to emissions from how many cars: 2,500	5-ESS3-1
6.	Refer to Maryland Integrated Science Assessment Rubrics	4-ESS3-1
7.	B	4-LS1-2
8.	D	4-LS1-2
9.	B, C	4-LS1-2
10.	B	3-LS2-1
11.	<b>Part A:</b> B <b>Part B:</b> The sentence should read: Social bees use [communication] to attack a large predator at [the same time].	3-LS2-1
12.	Refer to Maryland Integrated Science Assessment Rubrics	4-LS1-2

## Section 4

Item Number	Answer Key	Performance Expectation
1.	D	3-LS1-1
2.	The arrow selected that <u>best</u> represents the process of reproduction is arrow 4.	3-LS1-1
3.	B	5-PS3-1
4.	D	5-PS3-1
5.	C	5-PS3-1
6.	Refer to Maryland Integrated Science Assessment Rubrics	5-PS3-1
7.	B, D, E	3-LS4-3
8.	C	3-LS4-3
9.	The animals selected as <u>most likely</u> to survive are: 1) Polar Bear 2) Husky Dog	3-LS4-3
10.	D	3-LS2-1
11.	D	3-LS2-1
12.	Refer to Maryland Integrated Science Assessment Rubrics	3-LS2-1