

DC CAPE Science High School Practice Test Answer Key

1	C
2	E, B
3	B
4	A
5	C
6	incorrect; planting milkweed and reducing pesticide use
7	C
8	C
9	A, D
10	support; number of lizards; decreases
11	positive; six and eight; increased; onefold
12	Part A: B Part B: C

Answer Key (continued)

13	B
14	most; solar; oxidation processes; some
15	Not Implied by the Ad: Blue light can reduce fine lines and wrinkles in human skin. Implied by the Ad; Can Be Evaluated Scientifically: Red light can interact with muscle tissue in a way that can reduce pain. Implied by the Ad; Cannot Be Evaluated Scientifically: Low-level light therapy is a unique therapy with healing results.
16	C
17	A, D
18	D
19	D
20	Part A: B Part B: B

Question 21 Scoring Guide

Response Criteria	
3	All three parts are correct. Award 1 point for each fully correct part: Part A, Part B, and Part C.
2	Two of the three parts are fully correct.
1	One of the three parts is fully correct.
0	None of the three parts is fully correct, or the response is blank or irrelevant.

Exemplar Answers

Part A: Green body color was the heritable trait that gave some insects an advantage because green insects were less visible in the grassy habitat.

Part B: Birds more easily captured brown insects. Green insects were more likely to survive and reproduce, so green insects passed the green-color trait to more offspring.

Part C: Green body color was inherited. Because birds more easily captured brown insects, green insects had a survival and reproductive advantage. Over many generations, natural selection increased the proportion of green insects in the population.