

# Science 7 - Numerical Response Questions - Interactions and Ecosystems

Sample ...

1. Plants and animals need to adapt to their surroundings in order to survive. Match the plant or animal with the appropriate adaptation.

- 1 curlew
- 2 robin
- 3 worm
- 4 sea otter

4	1	2	3
flippers	long bill	special feet	breathe through skin

4	1	2	3
0	0	0	0
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9

2. Organisms depend on other organisms for survival. Match the interdependent relationship (**symbiosis**) with the description.

- 1 each organism benefits in the relationship
- 2 one organism benefits the other is harmed
- 3 one organism benefits and nothing happens to the other organism
- 4 one organism appears to be like another

\_\_\_\_\_ commensalism    \_\_\_\_\_ mutualism    \_\_\_\_\_ mimicry    \_\_\_\_\_ parasitism

0	0	0	0
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9

3. Protecting the environment by reducing the size of our ecological footprint. Match the action with its waste reduction description.

- 1 use it again
- 2 cut down on use
- 3 fix it
- 4 make it into something else

\_\_\_\_\_ reduce  
 \_\_\_\_\_ reuse  
 \_\_\_\_\_ recycle  
 \_\_\_\_\_ restore

0	0	0	0
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
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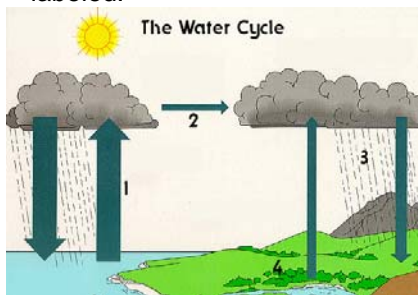
4. There are many different roles for organisms in an ecosystem. Match the role with its description.

- 1 are plant eaters
- 2 are meat eaters
- 3 are food for other organisms
- 4 eat other organisms

\_\_\_\_\_ producer  
 \_\_\_\_\_ consumer  
 \_\_\_\_\_ carnivore  
 \_\_\_\_\_ herbivore

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1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9

5. **Water Cycle** – the continuous movement of water through an ecosystem. Identify the parts as labeled.



\_\_\_\_\_ evaporation  
 \_\_\_\_\_ condensation  
 \_\_\_\_\_ transpiration  
 \_\_\_\_\_ precipitation

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1	1	1	1
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3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9

6. There are different kinds of **monitoring practices** that help us check the health of an ecosystem. Match the description with the type of monitoring it describes.

- 1 physical
- 2 environmental
- 3 chemical
- 4 biological

\_\_\_\_\_ Changes in weather  
 \_\_\_\_\_ Quality of air, soil, and water  
 \_\_\_\_\_ Changes in organisms  
 \_\_\_\_\_ Changes in landscape

0	0	0	0
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9