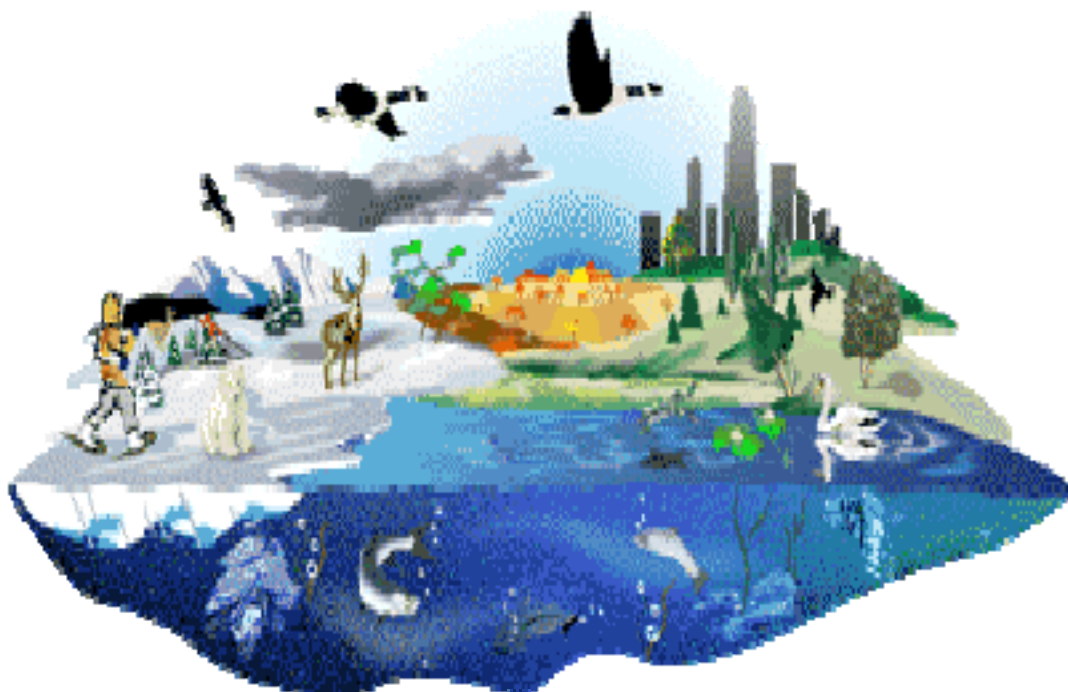


## UNIT TEST



# Interactions and Ecosystems



Student Name \_\_\_\_\_

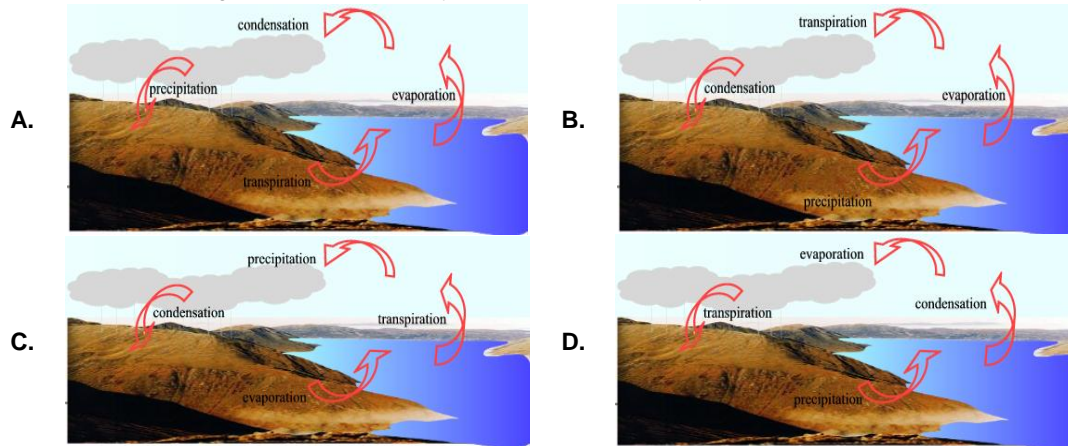
Class \_\_\_\_\_

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  - A. **food, clothing, shelter, love**
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  - B. **parasitism**
  - C. **symbiosis**
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31. Adapting to change is easier for some species than for others. A bushy-grassland area was cleared to make room for a new housing development, in a city suburb. The original area was home to many species that thrived. The species likely to adapt most easily to the new habitat was ...

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- C. **has no natural predators, so it will overpopulate the area**
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33. Numbers of organism populations, in a particular area, may increase and decline over time, depending on the conditions. Extinction means that there are no individual organisms of a particular species left. An extinct species in Canada is the ...

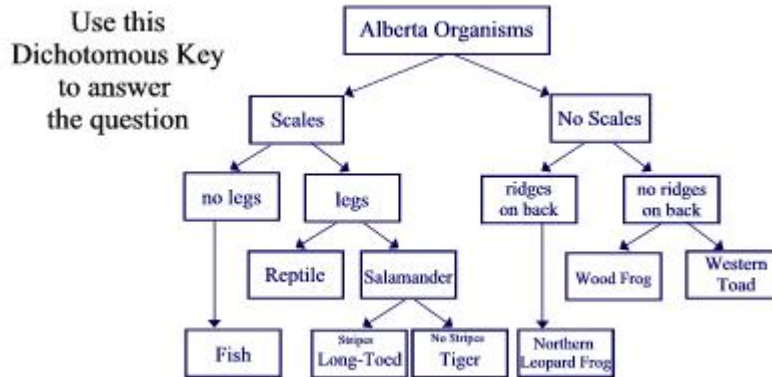
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- B. **swift fox**
- C. **burrowing owl**
- D. **bull trout**

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- C. **chemical**
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- impact assessment
  - baseline data
  - permanent plot
  - quadrant sample
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- the pulp mills were environmentally safe
  - industrial waste was being disposed of properly
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  - low oxygen levels were responsible for decreased fish populations
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- reptiles
  - fish
  - amphibians
  - insects
40. When a study area is divided into sections, each  $1\text{m}^2$ , scientists can count and study samples from these areas and determine the overall health and population of a particular species. This technique is called ...
- baseline data
  - quadrant sampling
  - biological monitoring
  - ecosystem calculation

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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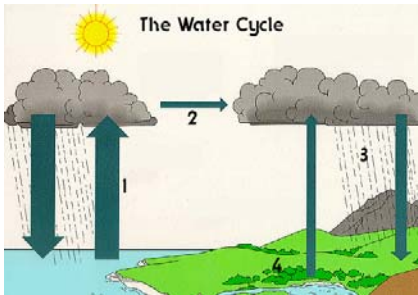
4. There are many different roles for organisms in an ecosystem. Match the role with its description.

- 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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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.



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

.	.	.	.
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

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

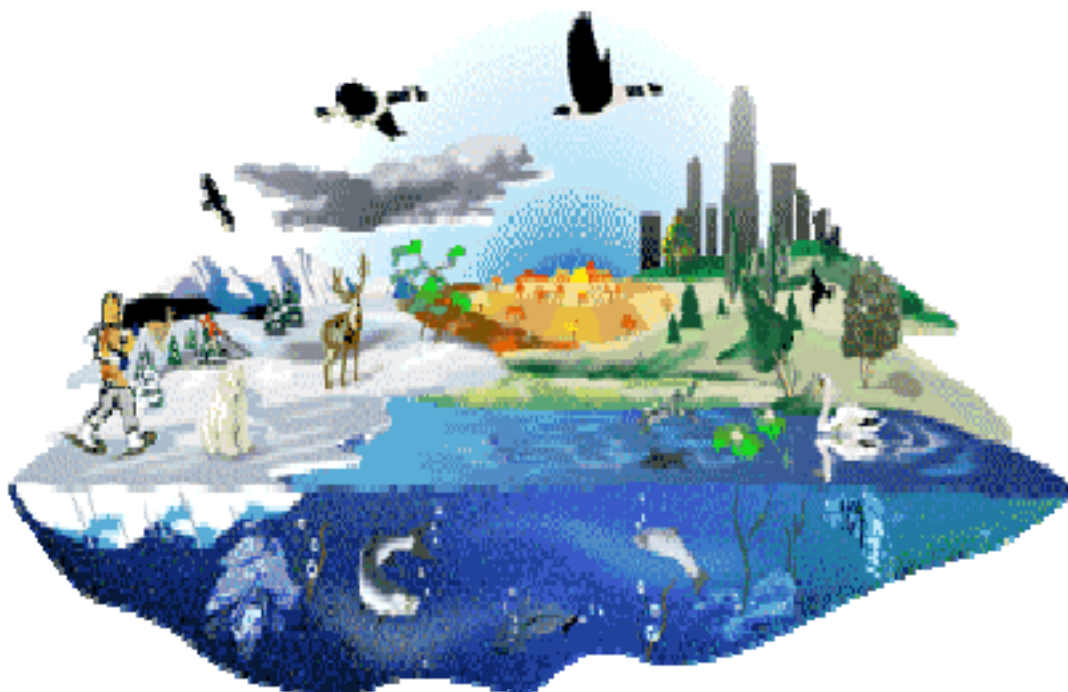
\_\_\_\_\_ Changes in weather  
 \_\_\_\_\_ Quality of air, soil, and water  
 \_\_\_\_\_ Changes in organisms  
 \_\_\_\_\_ Changes in landscape

.	.	.	.
0	0	0	0
1	1	1	1
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## UNIT TEST



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Student Name \_\_\_\_\_

Class \_\_\_\_\_

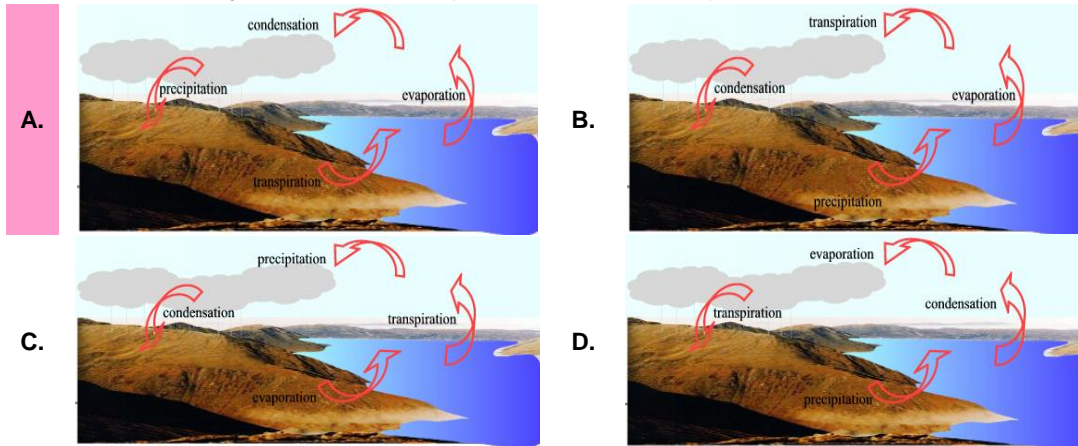


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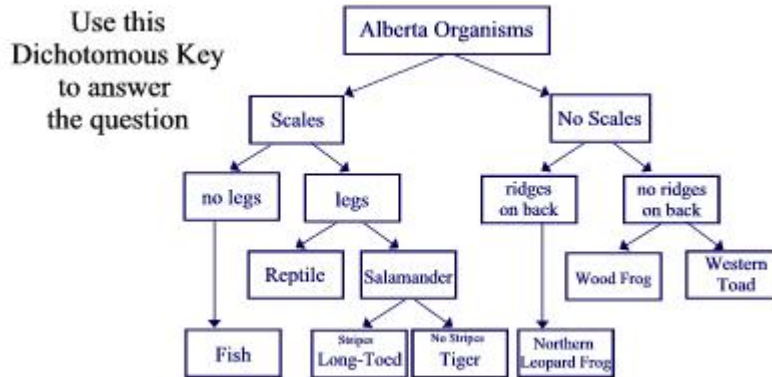
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- B. **fish**
- C. **amphibians**
- D. **insects**

40. When a study area is divided into sections, each  $1\text{m}^2$ , scientists can count and study samples from these areas and determine the overall health and population of a particular species. This technique is called ...

- A. **baseline data**
- B. **quadrant sampling**
- C. **biological monitoring**
- D. **ecosystem calculation**

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

3	1	4	2
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

2	1	4	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

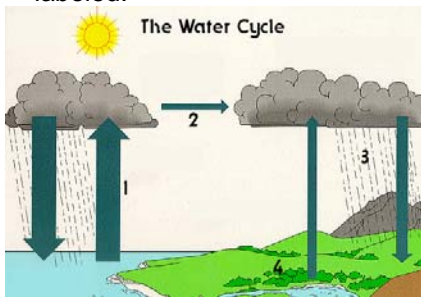
4. There are many different roles for organisms in an ecosystem. Match the role with its description.

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

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

3	4	2	1
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

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



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

4	2	1	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

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

2	3	4	1
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