Name ________________________________________ Date ________________ Bell __________

# Unit 4: Lesson 3- What are Physical and Behavioral Adaptations?

## Vocabulary

1. adaptation (page 178)-
_______________________________________________________________________________
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2. Camouflage (page 182- **NOT FOUND IN GLOSSARY**)-
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3. Mimicry (page 183- **NOT FOUND IN GLOSSARY**)-
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4. Instinct (page 184)-
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5. Nocturnal (page184- **NOT FOUND IN GLOSSARY)**-
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6. Migration (page 185- **NOT FOUND IN GLOSSARY**)-
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7. Hibernation (pages 185- **NOT FOUND IN GLOSSARY**)-
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8. Life Cycle (page 186- **NOT FOUND IN GLOSSARY**)-
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## Adaptations Pages 178-179

1. What are adaptations?
______________________________________________________________________________
______________________________________________________________________________
2. What is an example of an organism, one adaptation that it has, and how does that organisms use that adaptation for?
______________________________________________________________________________
______________________________________________________________________________
3. What is an adaptation that you have that helps you stay warm in the winter?
______________________________________________________________________________
4. Where does an arctic hare live and what kinds of adaptations does it have?
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______________________________________________________________________________
5. The artic hare shown on page 178 has white fur in the winter and brown fur in the summer. How does the arctic hare's changing fur color help it survive?
______________________________________________________________________________
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______________________________________________________________________________
6. Where does a jackrabbit live and what kinds of adaptations does it have?
______________________________________________________________________________
______________________________________________________________________________
7. Where do Ostriches, rheas, and emus all have in common with one another? How are they different?
______________________________________________________________________________
______________________________________________________________________________
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8. Why don't all animals have the same adaptations?
______________________________________________________________________________
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9. What does it tell you if two animals that live in different places have very similar adaptations?
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______________________________________________________________________________
10. Vines and trees are both plants and have adaptations, but they are very different from each other. What adaptations do these plants have to help them survive?
______________________________________________________________________________
______________________________________________________________________________
11. Which kind of habitat do you think most vines are adapted to live in? Explain your answer.
______________________________________________________________________________
______________________________________________________________________________
12. Ostriches, rheas, and emus live in grasslands. What are some adaptations they have to survive in grassy habitats?
____________________________________________________________________________

## Form and Function Pages 180-181

13. What are physical adaptations?
_______________________________________________________________________________
_______________________________________________________________________________
14. What kind of physical adaptations do penguins have?
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_______________________________________________________________________________
15. How do penguin's adaptations reflect its environment?
_______________________________________________________________________________
_______________________________________________________________________________
16. What kind of physical adaptations do Bison have?
_______________________________________________________________________________
_______________________________________________________________________________
17. What kind of physical adaptations do cactus have?
_______________________________________________________________________________
_______________________________________________________________________________
18. What might happen to a cactus plant if it did not have sharp spines?
_______________________________________________________________________________
19. What kinds of physical adaptations do parrots have?
_______________________________________________________________________________
_______________________________________________________________________________
20. The bird on page 180 has a membrane that protects its eyes when it is flying. What item have people invented to protect their eyes from the wind? ____________________________________
21. Penguins and Bison live in very different places. Yet these animals have a similar adaptation. Bison develop a thick layer of fat under their fur. Penguins have a thick layer of blubber under their feathers. What do these adaptations tell you about the environments were these animals live?
_______________________________________________________________________________
_______________________________________________________________________________
22. Human's skin is just like what part of an Oak Tree? ______________________________________
23. Which plant structure is most similar to the function of a human skeletal system?
_______________________________________________________________________________

## Eat or Be Eaten Pages 182-183

24. What are some benefits of having physical adaptations?
    ____________________________________________________________________________
    ____________________________________________________________________________
25. What is camouflage?
    ____________________________________________________________________________
    ____________________________________________________________________________
26. Animals that hunt, have adaptations that help them catch their food, what are some examples?
    ____________________________________________________________________________
    ____________________________________________________________________________
27. Many plants have adaptations to help spread their seeds, how do they do this?
    ____________________________________________________________________________
    ____________________________________________________________________________
28. What is mimicry?
    ____________________________________________________________________________
    ____________________________________________________________________________
29. What is an example of an organism using mimicry?
    ____________________________________________________________________________
30. Chameleons have many adaptations, what are they?
    ____________________________________________________________________________
    ____________________________________________________________________________
    ____________________________________________________________________________

## On Your Best Behavior Pages 184-185

31. What are behavioral adaptations?
    ______________________________________________________________________________
32. What are instincts?
    ______________________________________________________________________________
33. What are examples of instincts?
    ______________________________________________________________________________
    ______________________________________________________________________________
34. What are examples of behaviors that have to be taught that are not examples of instincts?
    ______________________________________________________________________________
    ______________________________________________________________________________
35. How is a behavioral adaptation different from a physical adaptation?
    ______________________________________________________________________________
    ______________________________________________________________________________
36. What is an example of a behavioral adaptation that an octopus has?
    _____________________________________________________________________________
37. What does it mean to be nocturnal?
    ______________________________________________________________________________
38. What are some examples of animals that are nocturnal?
    ______________________________________________________________________________
39. What is migration?
    ______________________________________________________________________________
    _____________________________________________________________________________
40. What are some examples of animals migrating?
    ______________________________________________________________________________
41. What is hibernation?
    ______________________________________________________________________________
    ______________________________________________________________________________
42. How is hibernation different from sleeping?
    ______________________________________________________________________________
    ______________________________________________________________________________
43. Do you think animals are able to eat while they are hibernating? Explain your response.
    ______________________________________________________________________________
    ______________________________________________________________________________
44. Where do you think an animal gets its energy from while it is hibernating?
    ______________________________________________________________________________
    ______________________________________________________________________________
45. What is Social Behavior?
    ______________________________________________________________________________
    ______________________________________________________________________________
46. How do Honeybees communicate? _________________________________________________
47. When a honeybee performs the “waggle dance,” what kind of information is the bee communicating?
    ______________________________________________________________________________
    ______________________________________________________________________________
    ______________________________________________________________________________

# The Circle of Life Pages 186-187

48. What is a life cycle?
    ____________________________________________________________________________
    ____________________________________________________________________________
49. Life cycles are related to their: ________________________________
50. What is the life cycle of a frog?
    ____________________________________________________________________________
    ____________________________________________________________________________
    ____________________________________________________________________________
51. How are tadpoles and frogs different from one another?
    ____________________________________________________________________________
    ____________________________________________________________________________
52. How would a frog's life cycle help it survive?
    ____________________________________________________________________________
    ____________________________________________________________________________
53. What is the life cycle of a butterfly?
    ____________________________________________________________________________
    ____________________________________________________________________________
    ____________________________________________________________________________
54. How are caterpillars and butterflies different from one another?
    ____________________________________________________________________________
    ____________________________________________________________________________
55. What is the life cycle of salmon?
    ____________________________________________________________________________
    ____________________________________________________________________________
    ____________________________________________________________________________
56. Why might it be easier for young salmon to survive in a stream rather than in the ocean?
    ____________________________________________________________________________
    ____________________________________________________________________________
57. How do you think salmon know when they should migrate upstream in order to lay their eggs?
    ____________________________________________________________________________
58. What is one advantage that the life cycles of butterflies and frogs both provide?
    ____________________________________________________________________________
    ____________________________________________________________________________
59. How many offspring can a salmon have at one time? An impala?
    ____________________________________________________________________________
60. Which animal, a salmon or an impala, spends more time caring for its young? ______________
61. Do you think offspring that are cared for by adults are more likely to survive? Explain.
    ____________________________________________________________________________
    ____________________________________________________________________________
62. A female impala has one or two calves and then spends months feeding and protecting them. A female salmon lays thousands of eggs and then returns to the ocean. What are some advantages of each type of life cycle?
    ____________________________________________________________________________
    ____________________________________________________________________________

## Living Things Change Pages 188-189

63. Why do corn snakes come in a variety of different colors?
________________________________________________________________________
________________________________________________________________________
64. Suppose a hawk is flying over a wheat field, look for a snack. Which of the snakes, on page 188, is least likely to become lunch? Why?
________________________________________________________________________
________________________________________________________________________
65. Why is variation in a population beneficial?
________________________________________________________________________
________________________________________________________________________
66. Sometimes living things change because their environment changes. What is an example of this?
________________________________________________________________________
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________________________________________________________________________
67. What are antibiotics used for?
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________________________________________________________________________
68. Why are so many bacteria able to resist antibiotics?
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________________________________________________________________________
69. When an environment changes, why do some individuals survive while others die?
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________________________________________________________________________
70. Suppose less rain fell than normal. Which plants would be more likely to survive?
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