

Topic: Adaptation Worksheet

Summary: Students answer if a scenario is an acclimation or an adaptation.

Goals & Objectives: Students will be able to decide between an adaptation and an acclimation.

Standards: *CA Biology 8a Students know* how natural selection determines the differential survival of groups of organisms.

Time Length: 15 minutes

Materials:

- Class textbook or lecture notes
- Photocopied worksheets
- Pencils or pens

Procedures:

1. Tell the students which section they are to use in the textbook or their associated lecture notes. Students are then going to read the section and answer the questions on the worksheet.

Accommodations: Give students with a modification IEP less problems to complete but they need to at least fill in the diagram. Students with an IEP can take the handout home if they need extra time.

Evaluation:

Each question is worth 1/2 point each. The assignment is worth a total of 10 points.

Adaptation Worksheet

Adaptation is an inherited trait (genetic) that increases an organism's chance of survival. Adaptations can be anatomical, physiological, or behavioral (instinctual) and will happen over many successive generations. An acclimation is a short term learned response to an environmental change.

Circle whether each sentence is an adaptation or an acclimation.

1. Dolphins learn to perform tricks to entertain humans. *adaptation or acclimation*
2. Leopard seals have a huge amount of body fat so that they can withstand the cold ocean water.
adaptation or acclimation
3. The Galapagos finch's beak changes shape after each time a seed is opened. *adaptation or acclimation*
4. Chameleons change their skin color to hide in their surroundings. *adaptation or acclimation*
5. A lizard's legs grew longer after they were broken from falling off a tall rock. *adaptation or acclimation*
6. Volcán Darwin tortoises of the Galapagos Islands have domed shells. *adaptation or acclimation*
7. Brown bears gain weight during the summer months so that they can hibernate during the winter.
adaptation or acclimation
8. Redwood trees have a chemical called tannin that helps keep bugs and fungus away. *adaptation or acclimation*
9. A dog ignores a bee hive because it learned it will get stung. *adaptation or acclimation*
10. Migrating birds fly towards the equator during the winter months. *adaptation or acclimation*
11. A stronger baby finch takes food from a smaller sibling. *adaptation or acclimation*
12. Cheetahs are the fastest land animal so that they can catch their prey. *adaptation or acclimation*
13. Ladybugs have a hard outer body called an exoskeleton. *adaptation or acclimation*
14. Fiddler crabs can alter the shape or size of their claw by using it more. *adaptation or acclimation*
15. Plants have vascular tissues that is used to transport minerals. *adaptation or acclimation*
16. A raccoon lost its hair in a fire and now is camouflaged. *adaptation or acclimation*
17. Camels have 3 eyelids so that they can prevent sand from entering during a sand storm. *adaptation or acclimation*
18. You put on a rain coat because you notice rain clouds overhead. *adaptation or acclimation*
19. A rat's hair was burned off and now the rat is able to avoid predators because it has a different scent.
adaptation or acclimation
20. A cat hunts a bird in your backyard. *adaptation or acclimation*