

Directions: Fill in the chart on your worksheet with pairs of organisms to illustrate examples of each type of symbiotic relationship. Use ☺ to show if the organism is helped, ☹ for not affected, or ☹ for harmed.



Barnacles create home sites by attaching themselves to **whales**. This relationship neither harms nor benefits the whales.



Yucca flowers are pollinated by **yucca moths**. The moths lay their eggs in the flowers where the larvae hatch and eat some of the developing seeds. Both species benefit.



Remoras attach themselves to a **shark**'s body. They then travel with the shark and feed on the leftover food scraps from the shark's meals. They also help the shark by removing parasites.



Mistletoe extracts water and nutrients from a **spruce tree** and may kill it.



The **stork** uses its saw-like bill to cut up the dead animals it eats. This helps the **bees** since the dead animal carcass is accessible for food and egg laying.



A **flea** feeds on a **mouse**'s blood and harms the mouse.



Oxpeckers feed on the ticks found on a **rhinoceros**. The oxpeckers get a meal and the rhinoceros has ticks removed.



Hermit crabs live in shells made and then abandoned by **snails**.



Ostriches and **gazelles** feed next to each other. They both watch for predators and alert each other to danger. Because their visual abilities are different, they can identify threats that the other animal would not see as readily.



Honey guide birds alert and direct **badgers** to bee hives. The badgers then expose the hives and feed on the honey first. Next the honey guide birds eat.



A **cuckoo** may lay its eggs in a **warbler's** nest. The cuckoo's young will knock the warbler's eggs out of a nest and the warbler will raise the cuckoo's young.



As **bison** walk through grass, insects become active and are seen and eaten by **cowbirds**.



Ticks will feed on a **deer's** blood and could harm the deer.



Wrasse fish feed on the parasites found on the **black sea bass's** body. The wrasse fish get a meal and the black sea bass is helped by the removal of the parasites.



Heartworms develop inside a **dog's** heart. The worms cause health problems and may result in the death of the dog if not treated.



A sparrow will build its nest under the nest of an osprey. The smaller birds get protection because other predators will not mess with the osprey.



A wasp lays its eggs on a caterpillar. When the wasp eggs hatch, the larva will eat the caterpillar and kill it.



Orchids grow inside a bromeliad plant. The orchid obtains water and nutrients from the bromeliad, but does not harm it.