

## Keystone Species

Saguaro Cactus

### What is a keystone species?

A keystone species is a species that has a disproportionately large effect on its environment relative to its abundance. The concept was developed by ecologist Robert Paine in the 1960s, based on his studies of intertidal ecosystems. Paine found that the removal of a single species, the starfish *Pisaster ochaceus*, led to a dramatic change in the community structure of the rocky shore.

Keystone species can be found in a wide variety of ecosystems, from marine environments to terrestrial habitats. They often play a role in maintaining the balance of an ecosystem, and their removal can lead to a collapse of the system. Examples of keystone species include the sea otter in kelp forests, the African elephant in savannas, and the beaver in freshwater ecosystems.

### Why is the Saguaro a keystone species?

The Saguaro cactus is a keystone species in the Sonoran Desert. It provides food and shelter for a wide variety of animals, including birds, mammals, and reptiles. The cactus also plays a role in the water cycle, storing water in its thick stems and releasing it slowly over time. Without the Saguaro, the desert ecosystem would be fundamentally altered.

For more information on the Saguaro cactus, visit the Sonoran Desert Museum website at [www.sdmuseum.org](http://www.sdmuseum.org).



## Saguaro Cactus Family

These are some animals that live with the Saguaro Cactus.



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# Saguaro Cactus Study Guide

**M Woodhall**



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