

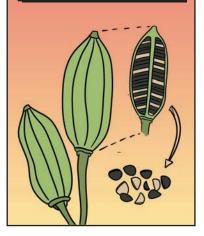
At the top of this stalk, a cluster of flowers will bloom.



The flowers contain the reproductive organs of the plants and the **pollination** of the flowers is a key part of their sexual reproduction.



After pollination, baby plants develop into many seeds in a seed pod.

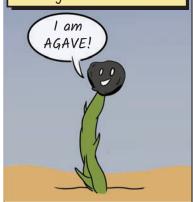


As the seed pod dries out, wind or other forces will shake it loose to burst open.

Wheee!

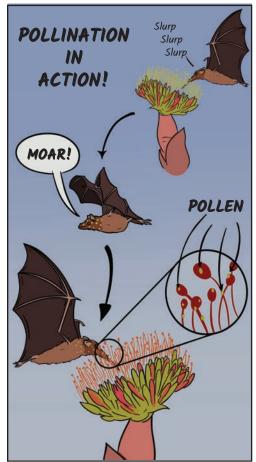
The seeds disperse on the ground around the parent plant. Wheee!

Pollination is important for the survival of a species, as new offspring will ensure it lasts for generations.

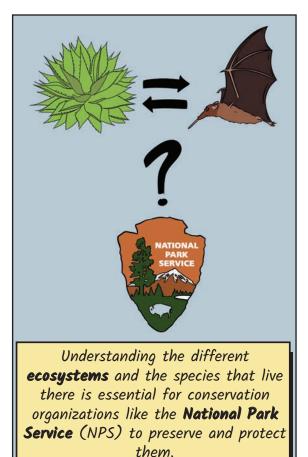


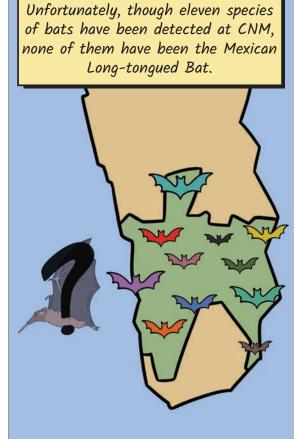
This plant is pollinated by a special group of animals - bats! Specifically, the Mexican Long-tongued Bat (Choeronycteris mexicana).

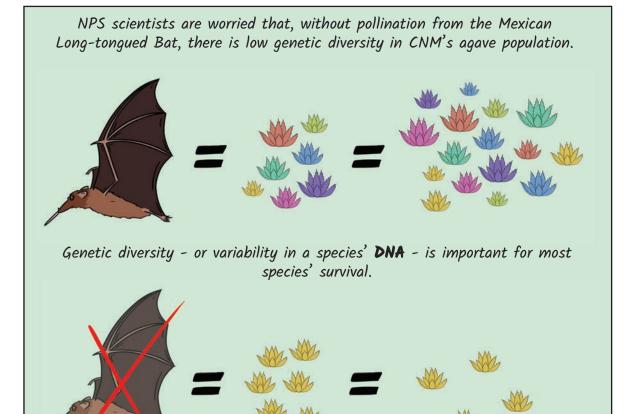
POLLEN





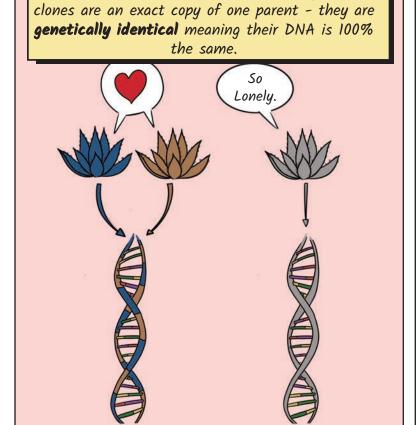






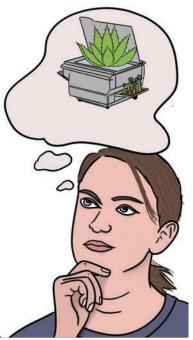
So how are the Shaw's Agaves at CNM currently reproducing without their primary pollinator?





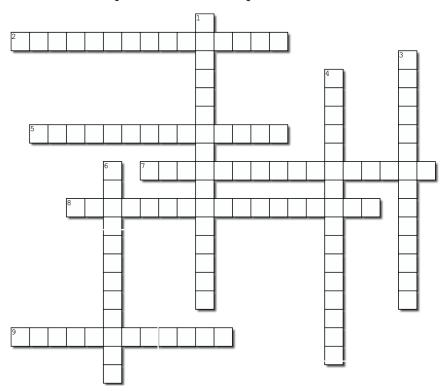
Instead of a mixture of DNA from two parents,

If Shaw's Agaves can reproduce asexually, why are scientists worried about pollination? Find out when you visit CNM!



Read the definitions, then use the hints to fill in the crossword puzzle below. Hint: #3 is abbreviated!

- Biodiversity the variety of life in the world or in a particular habitat or ecosystem.
- Mass extinction The extinction of a large number of species within a relatively short period of geological time.
- Ecological island an area of land which is isolated from the surrounding land.
- Population bottleneck an event that drastically reduces the size of a population. The bottleneck may be caused by various events, such as an environmental disaster, the hunting of a species to the point of extinction, or habitat destruction that results in the deaths of organisms.
- Genetic diversity is the diversity or variability of genes within species, a community or group.
- Habitat fragment when a large expanse of habitat is transformed into a number of smaller patches. These patches are "fragmented", or isolated from each other.
- Invasive species is an organism that causes harm in a new environment where it is not native.
- Ecosystem services the contributions of ecosystems to human well-being. They support our survival and quality of life, such as clean water or air.
- **Urbanization** the process by which large numbers of people become permanently concentrated in relatively small areas, forming cities.



ACROSS

- 2. intruder alert!
- 5. what happened to the dinosaurs?
- 7. cut into pieces.
- 8. helpful to humans.
- 9. the opposite of becoming rural.

DOWN

- 1. an assortment of jeans.
- 3. find a message in one of these.
- 4. not guite where Gilligan landed.
- 6. variety is the spice of life!

KNOW BEFORE YOU GO

On your virtual field trip, you'll be digitally visiting one of our nation's most culturally, historically, and naturally valuable places! Cabrillo National Monument is part of the National Park System, which means it is preserved and protected land. To make your virtual field trip enjoyable please follow these guidelines:

- Be prepared make sure you have read the comic book and finished your crossword puzzle.
- **Be polite** raise your hand when you wish to speak and do not interrupt each other: Please keep mic muted unless you are instructed otherwise. If comfortable, please turn on your camera. The use of an appropriate background is fine. All voices are welcome! This is a discussion where curiosity, questions, and respectful dialogue is encouraged.
- Be present come awake, alert, and ready to learn.
- Have fun enjoy digitally exploring San Diego's only.
 National Park!