



CHAPERONE INSTRUCTIONS

Lead students to find the plants shown. Read the information and questions provided for each plant.

Alternatively, students could work in pairs or small groups to use this page as a **Seek and Find**.



EUPHORBIA |
SOUTH AFRICA
 EARL & DONNALEE
 HOLTON ARID GARDEN

This plant is known for its poisonous, milky sap, but it also has a surprising use. It's sap has been used to make fuel similar to gasoline! Can you think of other plants that people use?



VENUS FLY TRAP |
NORTH AMERICA
 KENNETH E. NELSON
 CARNIVOROUS
 PLANT HOUSE

When insects touch the tiny hairs on this plant's leaves, they snap shut, trapping the bug inside. Venus fly traps can't hurt humans, but causing them to close without any food will shorten their lifespan. Examine this one closely with your eyes.



LIVING STONES |
SOUTH AFRICA
 EARL & DONNALEE
 HOLTON ARID GARDEN

These plants were named for their stone-like appearance. Local African names for these plants also include *beeskloutjie* (cattle hoof), *skaappootjie* (sheep hoof) and *perdeklou* (horse's hoof) because they look like miniature hoofprints. They have evolved to blend in with their environment, so they can be very difficult to spot. What other ways do desert plants protect themselves from animals searching for food?



TROPICAL PITCHER PLANT | PHILIPPINES AND INDONESIA
 KENNETH E. NELSON
 CARNIVOROUS
 PLANT HOUSE

Pitcher plants' cup-like leaves trap and digest insects and even animals. Some larger species have been known to trap frogs and birds! Look around. Can you find a pitcher that is longer than your hand?



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**PELICAN FLOWER |
CENTRAL & SOUTH
AMERICA |**
EARL & DONNALEE
HOLTON VICTORIAN
GARDEN PARLOR

The unique flowers of this plant attract flies. The smell and color of this flower resemble meat. How might other flowers in this parlor attract their pollinators?



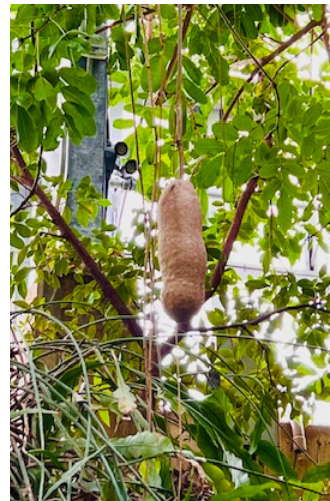
**STAGHORN FERN |
ASIA, POLYNESIA &
AUSTRALIA |**
EARL & DONNALEE
HOLTON VICTORIAN
GARDEN PARLOR

You can find this fern by looking for its papery brown base. Staghorn ferns cling to trees, where their fronds act like a cup to collect falling debris, water and nutrients. Can you find any other plants that live in trees?



**SCREW PINE |
MADAGASCAR |**
LENA MEIJER TROPICAL
CONSERVATORY

This tree's long roots help to prop it up in loose, sandy soil and protect it against high winds. Try standing with your feet far apart, then close together. Which position would make it easier to stay standing if you were pushed by a strong gust of wind?



**SAUSAGE TREE |
TROPICAL AFRICA |**
LENA MEIJER TROPICAL
CONSERVATORY

The fruits of the sausage tree can reach up to 24 inches long. As you walk around the conservatory, look up! Can you find the large, sausage-shaped fruits hanging from this tree? Can you find other plants with unusual fruits?

BONUS

The invention of the Wardian case in the 19th century made it easier for plants to be shipped worldwide. Learn more about the Wardian case in the Earl & Donnalee Holton Victorian Garden Parlor. Who invented the Wardian case?

Next Gen Science Standards:

3-LS4-3: Construct an argument with evidence that in a particular habitat some organisms can survive well, some survive less well, and some cannot survive at all.

4-LS1-1: Construct an argument that plants and animals have internal and external structures that function to support survival, growth, behavior, and reproduction.