

The Sonoran Desert can be hotter than 110°F (43C°) and receives fewer than 15" of rainfall per year. Based on the animals and plants you learned about today that avoid heat and conserve water, draw a desert home for YOU! Be creative! BIO= Life MIMIC= a near copy BIO= Life What other words have the BIO prefix? Using nature's Usin

Examples of animal mimics





Viceroy



Coral Snake

King Snake

Explore BIOMIMICRY at the Desert Museum!

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Show us your BIG IDEA! Email or scan a pic to: education@desertmuseum.org

@desertmuseum



Want more Biomimicry? Go to: www.asknature.org



4) Agave Garden

Rain Capture: Observe an agave. Describe 2 ways agaves capture and store water.

1. They can catch it on their extended branches and channel it to their base.

2. They store it in their succulent tissue.

5) Tortoise

Tortoises have been on Earth for 50 million years. What's one secret to their survival?

A few: they store water in their bladders, burrow underground in extreme temperatures, use their shell as protection from predators.

6) Warden Aquarium

Olympic swimmers now wear suits modeled after the shape of shark skin. The grooved scales help cut through water quickly. How could you use the shark skin design? Draw it!

All kinds of ideas! Submarines, boats, wetsuits...etc.

3) Prairie Dogs <u>Air flow:</u> Prairie dog mounds help circulate air. Draw arrows to show which way you think air moves in the burrow.

KOllow

Which animal did you choose?

START

Entrance Welcome! ¡Bienvenidos!

I would use the animal's

as an inspiration to invent:

The mound creates low pressure that sucks the air through the tunnels as __shown.

2) Earth Sciences Center

<u>Caves keep things cool!</u> How does this help to design a house? Caves keep a more constant temperature by being protected from the elements/extremes on the ground surface. Perhaps build partially under ground?

1) Reptiles and Invertebrates

Observe a reptile's skin. How does it help this animal survive in the desert? It is hard and protective, keeps animals from drying out, provides camouflage

How could we apply this to help humans? Create protective clothing based on reptile scales, use scale designs for camouflage patterning and sun protection, etc