

Desert Adaptations 沙漠適應性

Introduction

Deserts are dry, arid areas where there is little rain. Deserts can be hot or cold. Most hot deserts are located near the equator. As shown in various climate diagrams, plants and animals in deserts must make do with very little water. There are also large temperature differences between day and night. Many life forms have special adaptations to cope with these changing temperatures. Students were introduced to desert areas around the world and discovered the unique plants and animals that live there.

Animal Adaptation

Animals survive in deserts by living underground or resting in burrows during the heat of the day. Some creatures get the moisture they need from their food, so they do not need to drink much water. Second grade students learned about a variety of desert animals and had to observe and investigate the unique characteristics of each animal that allow it to live and survive in a desert.

Creating a Xerocole

It was fascinating to explore the adaptations that animals have developed to ensure their survival. Students had to take three to five unique adaptations from one of the featured desert animals and design a Xerocole that could live and survive in the desert. These Xerocoles were designed in the form of a diagram that depicted and explained each feature and its purpose.

介紹

沙漠是降雨量稀少，十分乾燥的地區。沙漠可以很熱，也可以很冷。大多數炎熱的沙漠都位於赤道附近。正如氣候圖所示，沙漠中的植物和動物必須適應水分稀少的環境。沙漠晝夜溫差也很大。許多生物因此發展出了特殊的適應能力來應對這不斷變化的溫度。學生們在專題中了解世界各地的沙漠，並認識到生長在當地的獨特動植物。

動物適應性

在沙漠中，動物透過生活在地底下或在洞穴中休息來躲避炎熱。有些生物從食物中獲取所需的水分，因此牠們不需要喝太多水。老師向二年級的學生們介紹了各種沙漠動物，學生必須觀察和研究每種動物哪些獨特特徵，使得牠們能夠在沙漠中生存。

創造生物

探索動物了解牠們因生存而發展出的適應性十分有趣，學生們必須從沙漠動物中選擇三至五種獨有的特性進行適應性改造，以設計出一種可以在沙漠中生存的生物。學生將他們的設計繪製下來，並在圖片上標示出他們設計出的動物所擁有獨特的特徵及其用途。

1 ASK + IMAGINE 提問 + 創思



2 We discovered different deserts and their inhabitants. 我們尋找不同的沙漠及其棲息的動植物。



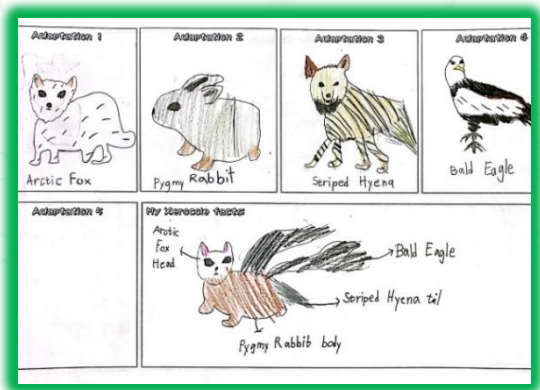
3 PLAN 計畫



We researched desert animals and their adaptations using an iPad. 我們使用 iPad 研究沙漠動物及其適應性。



4 CREATE 創造



5 IMPROVE 改進



We created animals with their five adaptations. 我們創造具有五種沙漠適應性的動物。

We presented our adaptations and made some changes based on feedback. 我們展示我們的動物，並依據同學的反饋進行修改。