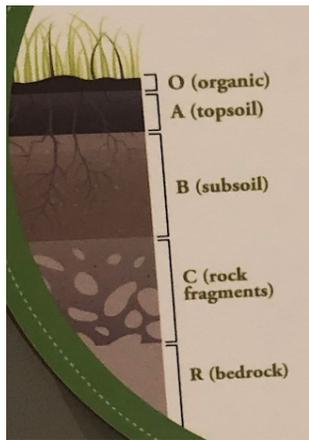


8. Find the "Great Lakes coastal dunes" diorama

What are perched dunes? How were they affected by glaciers?

9. Can you spot the difference between soils?

Typical soils have 5 layers. Each diorama has layers of soil. Choose one of the dioramas, find the soil profile, label the drawing, and draw how many layers of soil there are.



Typical Soil Profile

Do you see any differences between a typical soil profile and the soil profile you chose? Write some of the differences here.

Directions

Answer the guide as you travel through *Exploring Michigan*. This guide is meant to be completed while in the gallery with a chaperone.

1. Fossilization

Find a fossil that lived in Michigan and sketch it below.

When was it found? _____

What does the fossil you chose reveal about Michigan's past?

2. Michigan's Fossils

Why don't we have dinosaur bones?

3. Find the "Jack pine" diorama

How are forest fires important to both the trees and the animals?

Why is it important to protect the Jack pine ecosystem?

4. Find the "Wetlands" diorama

How have humans affected the preservation of wetlands? What can we do to help?

5. Find the "Oak-hickory" diorama

From the list, find each in the oak-hickory ecosystem, and organize them into the living vs. nonliving table.

Honey mushroom
Hickory saplings
Eastern screech owl

White-tailed deer
Fallen tree trunk
Snack wrappers

| Living | Non-living |
|--------|------------|
| | |

Give an example of how one of the non-living things might affect the living things in the ecosystem.

6. Types of Leaves There are two basic types of leaves: simple and compound. A simple leaf is a single undivided leaf and a compound leaf is divided into multiple leaflets all connected at the stem.



Simple Leaf



Compound Leaf

Find an example of each type in the oak-hickory diorama and sketch it below (remember to add the name too)!

7. Find the "River" diorama

Michigan's _____ miles of rivers drain _____ major watersheds into the _____ Great Lakes around Michigan.