

Geology Pin

for Cub Scouts and Webelos

Part 2



Overview

- Learn a bit about caves and caverns.
- Learn about stalactites, stalagmites and columns.
- Learn a bit about fossils.

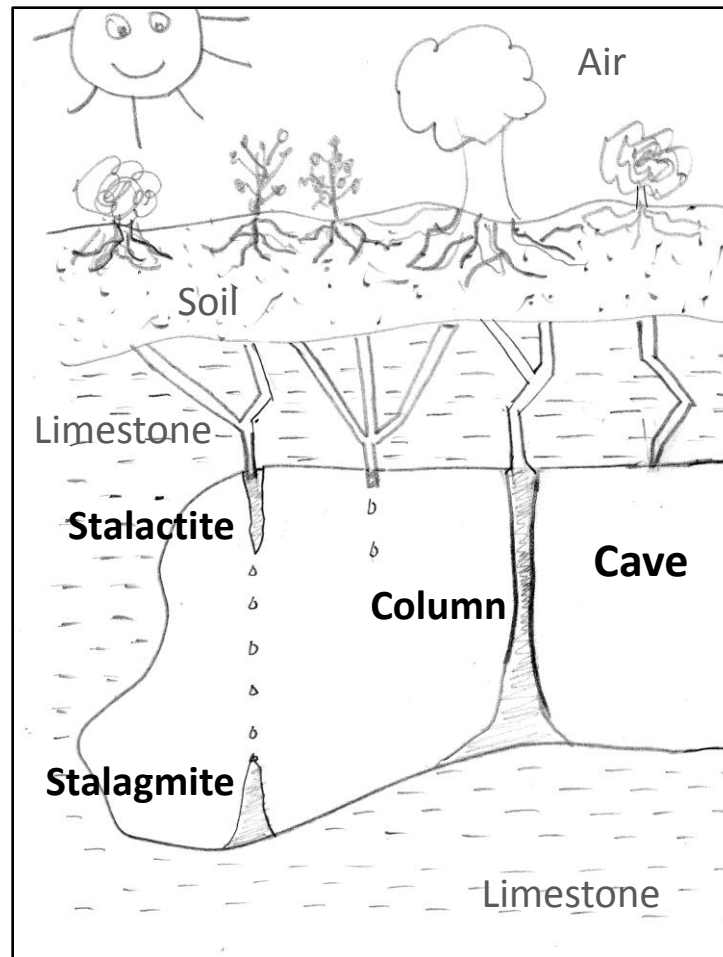
What Is A Cave

- A cave is a cavity (hole) in the ground. It can also be in a mountain, hill or cliff.
- Some portion of the cavity does not receive direct sunlight.
- There are many types of caves:
 - Volcanic Caves
 - Solution Caves
 - Sea Caves
 - and many more

What Is A Cavern?

- A *cavern* is another name for a Solution Cave.
- Caverns are very large.
- The same way your house has hallways and rooms, a cavern may have passageways and rooms.
- There are several caverns in California. Go take a tour of one.

Stalactites and Stalagmites



What Are Fossils?

- Fossils are the remains of animal and plants which lived long ago.
- There are different types of fossils:
 - Replacement Fossils
 - Impression Fossils
 - Trace Fossils
 - Amber

Most Popular Fossil Types

Replacement Fossils

- An animal/plant died and was buried by sediment before it rotted away.
- The animal/plant had hard bits (bones, teeth, shell etc).
- The minerals in the sediment replaced the rotting bits.
- These are 3-dimensional.

Impression Fossils

- An animal/plant died on top of mud, sediment or sand.
- The animal/plant did not have many hard bits.
- The mud, sediment or sand hardened to rock.
- These are 2-dimensional.

Other Fossil Types

Trace Fossils

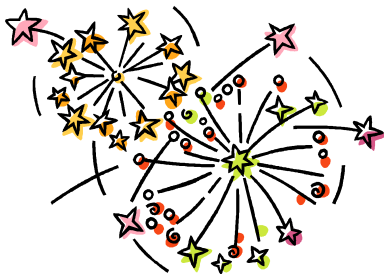
- An animal walked or slithered across soft ground.
- The animal's *activity* left an impression in the ground.
- The ground hardened to rock.
- There are dinosaur footprints in Utah.

Amber

- Tree sap oozed slowly out of a tree.
- An insect, leaf or something small got caught in the sticky sap.
- The sap hardened into amber with the insect inside.

Activities

- Draw a cave showing a Stalactite, a Stalagmite, and a Column.
- Draw 5 fossils and label what they are.
- Make a Pet Rock and tell a story about it. (To be done at the Craft Station.)



Geology Pin Completed

