

Who is Haruki?



Hi! I'm Haruki.

I am a
geoscientist. A
geoscientist is a
scientist who
studies the Earth!

Here are a few examples of projects that geoscientists work on:

 Research how hurricanes and tornadoes form.

 Help farmers in poor countries use soil to grow better crops.



Being a Geoscientist

Right now, I am learning about caves around the world! In addition to learning about caves, I have a podcast.

A podcast is a story that you can listen to online. A podcast is similar to a Youtube channel. The main difference is there isn't any video in a podcast. There is only sound! Many people listen to podcasts while they travel or do chores.



My podcast is called, "Curious about Caves?" The goal of the podcast is to teach people about caves that I visit and how the caves are made!



Recording a Podcast Episode

Today, I am recording my first episode! This episode will be called, "How Caves are Formed." To record the episode, I plug my microphone into my laptop. Then, I use a computer program to record my voice.

At the beginning of my podcast, I am going to explain how caves form. Caves form when rocks change over time. Both water and wind can cause rocks to change.

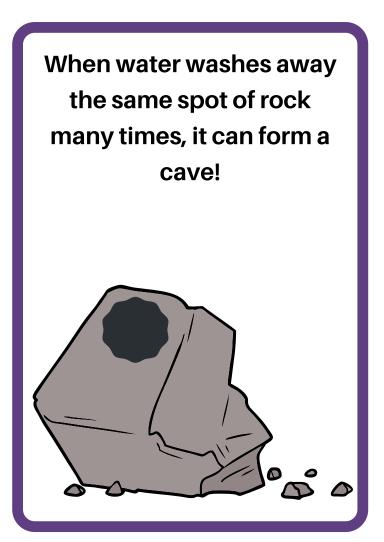


Water changes rocks to form caves in two different ways.
One way is when water runs over the rock. This dissolves minerals in the rock. The minerals are then washed away. This is like when you dissolve a piece of candy in your mouth.

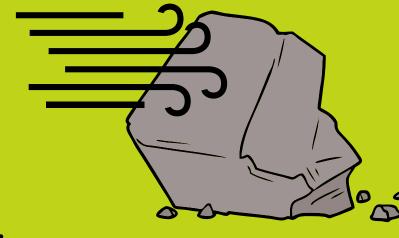


Recording a New Podcast Episode

Another way rocks form caves is when water hits the rock and breaks off tiny pieces. Then, the tiny pieces are washed away



Wind can also help form a cave! Wind can change rocks when it blows against them. Over time, the wind breaks down the surface of the rock. This means that little pieces of rock break off.



Recording a Podcast Episode

In the middle of the podcast, I am going to explain that caves help us understand the different parts of the Earth. Different parts of the Earth are called spheres. There are four spheres.

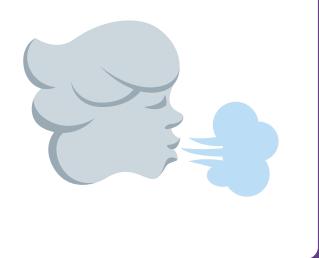
One sphere is called the hydrosphere.
It is is made up of all the water on
Earth. This includes rivers, lakes, and
oceans. It also includes water that falls
from the sky as rain or snow.



Another sphere is called the geosphere. It is made up of all of the land on Earth. This includes rocks and sand in the desert.



One sphere is called the atmosphere. It is made up of all of the gasses. This includes the oxygen we breathe.



Another sphere is called the biosphere. It is made up of all living things. This includes the plants that grow outside and humans!



Recording a Podcast Episode

Then, I am going to explain how caves are made when spheres interact with each other.

For example, the hydrosphere and geosphere interact to form caves. Water is part of the hydrosphere. Rock is part of the geosphere. When water hits rocks over time, caves can form. This means that the hydrosphere and geosphere interact with each other.



The atmosphere and geosphere also interact to form caves. Wind is part of the atmosphere. Rock is part of the geosphere. When wind hits rocks over time, caves can form. This means that the atmosphere and geosphere interact with each other





At the end of my podcast, I am going to tell my viewers a cool and creepy fact! Bats live in caves. One time, I went in a cave that has over 400,000 bats! How crazy is that?

My Podcast

After I have recorded my episode, I upload it to iTunes and SoundCloud. That way, people can download it and listen to it whenever they want! I want to record two more episodes this week! Here is a sneak peek on what they will be about:

