

These pages are from the G1 "Vibrating Materials Make Sound" journal.

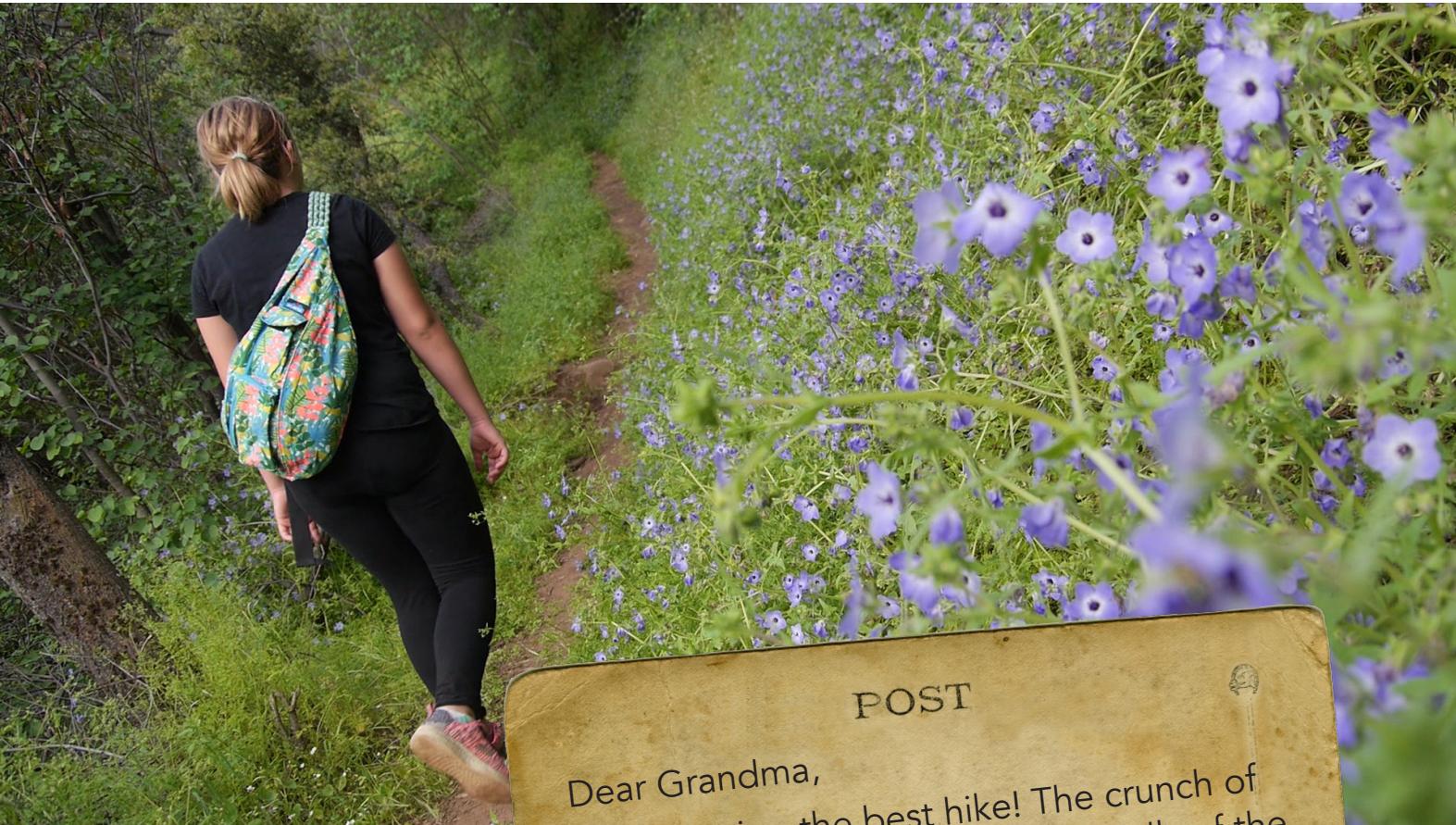


## Postcards to Grandma

Sounds are waves that travel through the air.

When sounds reach your ear they are heard.

Listen to the postcards that Lilly wrote to her Grandma after visiting Kings Canyon National Park.



### What you'll do:

Raise your hand  
when you hear  
the description  
of a sound.

# Marble Falls

## Kings Canyon National Park

Sound vibrations in the air are similar to ripples made by a pebble that is thrown into water.



A photograph of a woman with blonde hair tied back, wearing a black t-shirt and black pants with a colorful floral backpack. She is standing on a light-colored, textured rock surface, looking towards a waterfall cascading down large, dark grey rocks. The water is white and turbulent as it falls and flows downstream.

POST

Dear Grandma,

We wish you were here! Marble falls is the most incredible waterfall I've ever seen! The sound of the water is almost deafening as the water crashes against the rocks. It's like a shower, but a hundred times louder.

XOXO

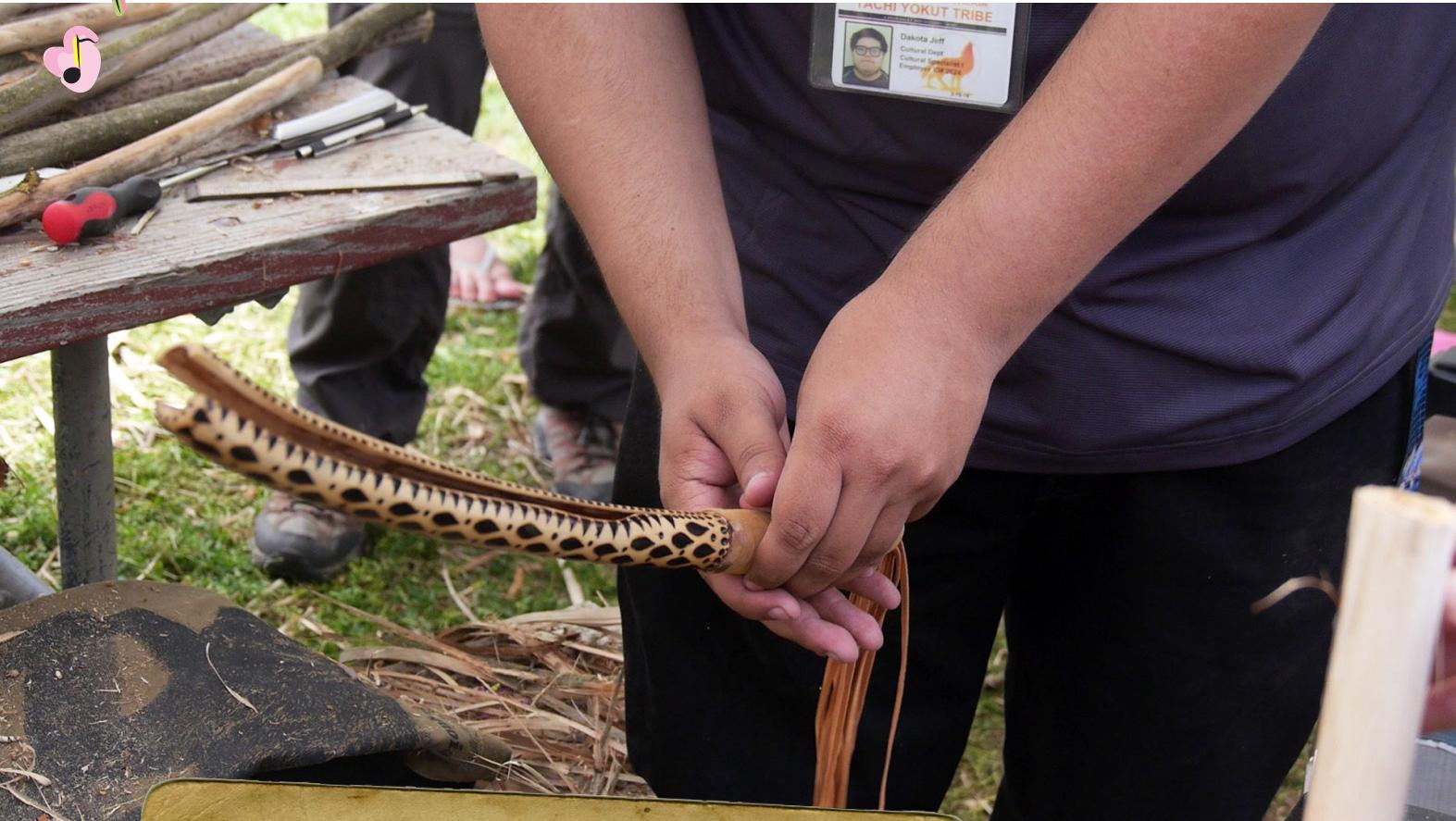
R. Guillenbach, Boerflug et Cie — Etats.

Can you describe the sounds mentioned in the post cards?

Think, Pair, Share!

# Clapper Stick

Kings Canyon National Park



## POST

Dear Grandma,

We had the best time at the Native American festival! The traditional Yokut clapper stick was so fun to make. I stripped off the bark and painted my own stick. It makes the nicest clapping sound!

XOXO

Guilleminet, Beveug et Cie — Paris.



Think,  
Pair,  
Share!

What sound did  
Lilly mention in  
her post card?  
Describe it.

# Native American Music

Bobby is a Native American from the Yokut tribe of California. His ancestors made clapper sticks to use as musical instruments.



The Yokut tribe has been making and playing clapper sticks for hundreds of years! Now, Bobby carries on the tradition.



## How to make a clapper stick

Look at the photos to see how you could make a clapper stick like Bobby.



Bobby uses elderberry branches because the middle of the branches are hollow.



Lilly removes the bark from her stick.



Bobby splits most of the stick in half with his knife.



Bobby tests out the clapper to see if it works.



Finally, Lilly paints and decorates her new clapper stick.

A clapper stick is a stick that is partially split in half. You can play the clapper stick by shaking it to make the sides of the stick clap together.



How will the sound change if you put more or less energy into the clap?

