

Let's make music

00





How Many People Do You Need For a Band?

earning to play a musical instrument well takes practice. But making music can be so much fun that some people want to play as many instruments as they can—all at once!



















art by Paula Becker

here are four families of musical instruments in an orchestra. Here are a few from each group.

SIFA

Most **woodwind** instruments are straight hollow tubes. A musician blows air, or wind, through one end to make sound.

Issoon is bent in the middle. were straight, it would be r than a grown man. were once made of wood, but now they're usually made of metal.

Flutes

Brass instruments usually look like coiled metal tubes. Players buzz their lips into the mouthpiece to make sound.

A **trumpet** has three buttons called valves. A musician presses them to play different notes. The **tuba** is the largest member of the brass family. Uncoiled, it would e 18 feet, onger nan a ninivan.

the diff Musicians strike or shake **percussion** instruments. They often play many different instruments during a concert.

Timpani are also called kettledrums. Unlike other orchestra drums, they can be tuned to play different notes.





Fubular pells,

also called chimes, ound like church cells when truck. Each netal tube s the same vidth but a different ength.

The main difference between four of the instruments in the **string** section is their size.

A player sits on a high stool or stands to play a big **double bass**.



Cellos are held between a sitting player's knees. **Violas** are just a little larger than violins. A player holds either one under the chin.





Do you see the black chin rest on this **violin**? Cellos and double basses don't need one. They stand on endpins.

How many of each of these instruments can you count on the next page? There are many other instruments in an orchestra, and the number of musicians changes depending on the music they play. What other instruments do you see?

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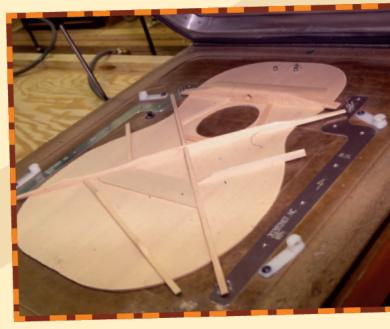
It all starts with a tree. With several trees, in fact. Since the first modern guitars were made in northern Spain

years ago, craftspeople have uitar is only as good as the ch it is made. Rosewood, uple, spruce, ebony, cedar, names of the wood almost nusic themselves! guitar is made of several kinds of wood. Each piece is y chosen and then cut to fit ct of the guitar for which it is ed.



12

The most important part of any guitar is the soundboard—the piece of wood with the large hole that lies underneath the strings. Guitar makers are careful to make the soundboard just the right shape and thickness. Then they glue strips of wood



across the inside in a special pattern. This bracing helps strengthen the soundboard. It also improves the tone of the guitar.

Wood for the curvy sides of the guitar must be soaked in water and bent over a hot iron pipe. When all the pieces of the guitar are ready, they are carefully glued together.











Special woodworking tools like this rasp are used to shape and smooth the neck of the guitar. Making a guitar takes a lot of time, patience, and skill.



Craftspeople must make sure the neck is perfectly centered over the soundboard. Finally it is time to apply varnish or lacquer. This finishing polish brings out the beauty of the wood and protects it from moisture and wear and tear. Varnish also improves the sound of the guitar—but too much makes the guitar sound flat and dull!



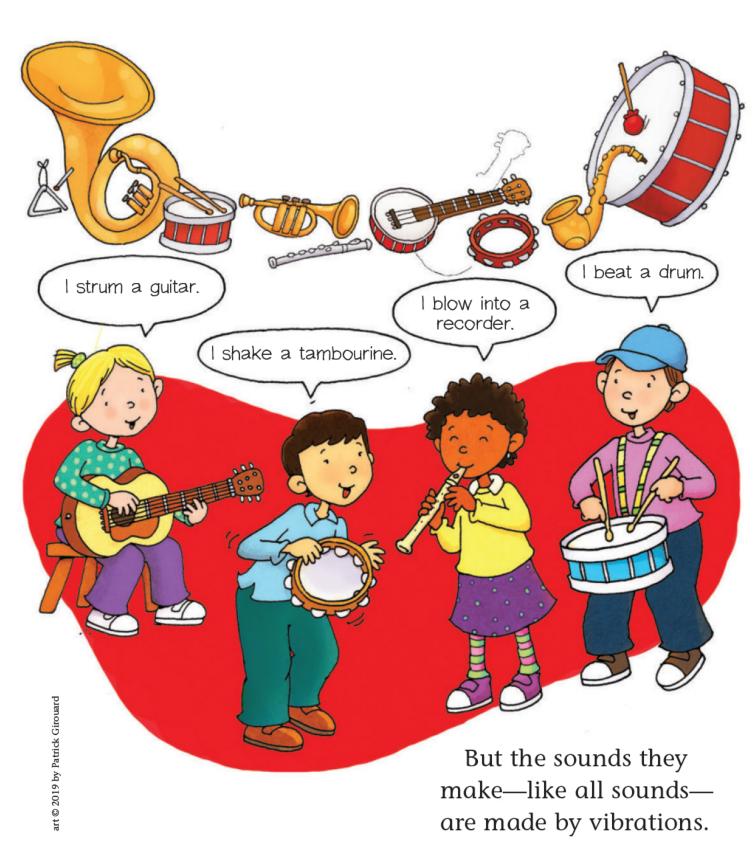


Guitar strings are attached and tightened to make just the right musical tones.

And now it's time for a song!

All right, guys, this is a blues riff in B. Watch me for the changes, and try and keep up, OK?





When something vibrates, it moves back and forth very fast. Stretch rubber bands of different widths around an empty box or bowl. Pluck one. Do you see it vibrate?

> l see it wiggling!

The vibrating rubber band makes the air around it vibrate too. You can't see the vibrations in the air, but they travel to your ears in

If you could see sound waves, they would look a bit like the dropped into a pond makes.

the form of rings of ripples that a pebble Sound waves.





Pluck the widest rubber band. Now pluck the skinniest one. Can you hear the difference in the sound each makes?

It can be hard to see, but the thin rubber band vibrates faster than the wide one. The faster something vibrates, the closer together its sound waves are and the higher its pitch.

> If you loosen the rubber band, it will vibrate more slowly and sound lower.

It sounds higher. Tightening the rubber band made it vibrate faster. Listen to what happens when I pull the rubber band tighter while I pluck it.





When I blow across the top of this empty bottle, I make the column of air inside vibrate.

My bottle has

some water in it. When

I blow, the sound it

makes has a higher pitch.



Like on my recorder. When I cover and open holes, I change the length of the air column inside, and that changes the pitch.

> See for yourself. Make an instrument and make some music!

The air column in the bottle with water

is shorter than in the empty bottle. It vibrates faster, so it sounds higher.

Big Music

usical instruments come in many sizes. You can fit a harmonica in your pocket. A concert grand piano is bigger than a queen-size bed. A few instruments are even too large for a person to play.



The wind plays **The Singing Ringing Tree**. Built of stacked steel pipes, the musical sculpture stands nearly 10 feet tall at the top of a hill in England. Its tune changes depending on which direction and how hard the wind blows.

lt's hea∨y metal music!

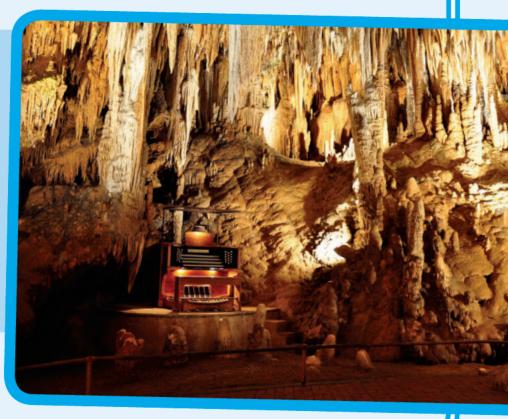


The Zadar Sea **Organ** in Croatia looks like a wide set of white marble steps leading down to the sea. But hidden underneath the steps are 35 pipes connected to plastic tubes under the water. When waves push into the tubes, they push air through the whistlelike pipes to make beautiful music.

The w

The world's largest instrument is—a cave! **The Great Stalacpipe Organ** in Virginia spreads across 3.5 acres, more than two football fields. Despite its size, one person can play it using a keyboard wired to 37 stalactites (the pointy rocks hanging from the cave ceiling). Pressing a key causes a rubber hammer to tap a stalactite, which makes a musical sound.

> lt's real rock musicl



Critter Fiddlers

by Tracy Vonder Brink art by Shirley Beckes

Birds sing. Dogs howl. But some animals don't use their voices to make music. Instead, they play their bodies like instruments. Rubbing one

> body part against another to make sound is called stridulation. Animals stridulate to find mates and to communicate

> > with ϵ

Whe finger comb, almost animc

23

Crickets sing with

their wings. Underneath a cricket's top wing is a row of bumps, called a file. Its bottom wing has a sharp edge, known as a scraper. When a cricket lifts and shakes its wings, the sharp scraper rubs over the bumpy file and makes a chirping sound.

Pretend my fingers are the file and scraper on my wings. They don't chirp, but do you hear them tapping?

Cicadas have a special body part that makes sound. It's called a tymbal, and it's found just behind each wing. The tymbal is a thin layer connected to thicker parts, known as ribs. The ribs click when the cicada bends its tymbals in and out. Grasshoppers play their wings with their legs. A grasshopper's back leg has a row of pointy pegs. To make noise, the grasshopper lifts its leg and runs it along the edge of its closed wing. But it only makes sound when the leg moves down over the wing. There's no noise when it moves up.

> It's hard to scrape my ankle against my wing without falling over.

> > Does the sound change if you pull the straw faster?

Pulling a bendy straw in and out is a little like what a cicada does with its tymbals.

Club-winged manakins live in cloud forests.

Club-winged manakins

knock their wings together very fast. When the wings bang together, a bent feather scrapes over feathers that have thick tips. The bent feather acts like a guitar pick and plays the other feathers. It makes a sound almost like a doorbell.

> That bird is talented. I can't tap my elbows together.

This is hard to do.



Hana Hashimoto,

SIXTH VIOLIN



by Chieri Uegaki, art by Qin Leng Excerpted from Hana Hashimoto, Sixth Violin, published by Kids Can Press.

hen Hana Hashimoto announced that she had signed up for the talent show and that she would be playing the violin, her brothers nearly fell out of a tree laughing.

"It's a *talent* show," said Kenji. "You're still a beginner."

"You can barely play a note," said Koji. "You'll be a disaster."



Hana squared her shoulders and took her violin and bow inside. She pulled at the strings, letting them twang. It was true that she was still a beginner. She had only been to three lessons. The first time she'd held a real violin had been that summer, while visiting her grandfather in Japan.



Long, long ago, Ojiichan had been a violinist for a great symphony orchestra. He still played every morning. From his study, the clear, bright notes would drift upstairs to where Hana slept, and coax her awake as gently as sunshine.

Ojiichan usually played classical pieces by Mozart or Mendelssohn or Bach. But in the indigo evenings, while Hana and her brothers ate ice cream and oranges, Ojiichan would sit on the veranda and play requests.

Hana always asked for a song about a crow cawing for her seven chicks. Whenever Ojiichan

played it, Hana would feel a shiver of happysadness ripple through her.



Ojiichan didn't just play songs. He could also make his violin chirp like the crickets Hana tried to find in the tall grasses.





He could pluck the strings to mimic the sound of raindrops on the oil-paper umbrella Hana twirled under during summer storms.

And when the first fireflies emerged at twilight, Ojiichan could compose a melody that seemed to make them dance higher and glow brighter than ever before.

On their last day together, Hana told Ojiichan that she wanted to learn to play the violin. And when Hana got home, her parents agreed that she could.



Now, Hana practiced every day, just like Ojiichan. And every day, her brothers fled

> the house with covered ears, complaining about the horrible noise.

She practiced in front of her parents, who listened with care while they washed and dried the dishes.

She practiced in front of her dog, Jojo, who cocked his head and sometimes growled at the strange sounds Hana made.





And she practiced on her own, in front of an old photo of Ojiichan from his symphony days.

Finally, the day of the talent show arrived. Backstage, Hana waited with a walloping heart. A dozen acts, including five other violinists, had already gone before her.





For one dizzy moment, Hana thought, "Kenji and Koji were right. This is going to be a disaster." She wished she could turn into a grain of rice and disappear into a crack between the floorboards.

Hana held a breath, then ballooned her cheeks before letting it out. With a *whoosh*, the roaring in her ears receded. Then, as everyone seemed to disappear beyond the light shining down on her like a moonbeam, she remembered.

"*Gambarunoyo, Hana-chan*." Do your best, her grandfather had told her. Ojiichan would be cheering for her.





Hana swallowed her nerves like medicine and leaned toward the microphone. "This is the sound of a mother crow calling her chicks," she said. She placed the violin under her chin, held her bow in position, and played three raw, squawky notes.

"This is the sound of my neighbor's cat at night." She dragged the bow across the strings and the violin yowled in loud protest.

"This is the sound of rain on a paper umbrella." Hana plucked the strings for a soothing *plomp-plomp-plomp*.



As Hana continued to play all the special sounds she had practiced, the air around her came alive with buzzing bees . . . and lowing cows . . . and squeaking mice . . . and croaking frogs. Finally, as the last sound effect trailed away, Hana took a great big bow.



Later, after dinner, Kenji surprised Hana by asking for an encore. "Make that funny cow sound again," he said. Then Koji said, "Make that crazy cat sound too." So Hana did. She happily played all her sounds again.





Perhaps next year Hana would be able to perform one of Ojiichan's favorite pieces. But for now, Hana played a little melody she had been practicing, remembered from nights lit by dancing fireflies. She imagined that the notes would drift out through the window, past the bright rabbit moon and beyond, and Ojiichan would hear them and smile. by Emily Cambias our voice is a musical instrument too. Put your fingers on your throat while you sing this song. Can you feel the vibrations?

To the tune of "Head, Shoulders, Knees and Toes"

We love to play our made-up song (made-up song).

We sing and sing it all day long (all day long),

And even when we march on off to bed

It still keeps playing in our heads (in our heads)!

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Answer to pages 10-11.



long.

Strings Woodwinds Brass Percussion

DO ANIMALS DREAM?



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picture of

you reading

CLICK.

Ronan G. age 5 Upton, WY

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Bonang

One of the main instruments in an Indonesian gamelan orchestra, a bonang consists of small bronze gongs arranged in two rows on a wooden stand. Each gong has a knob on top and looks a bit like a covered pot. To play the bonang, a musician sits on the floor and hits the gongs with padded sticks.



Didgeridoo

The didgeridoo is a long wooden trumpet from Australia. Modern didgeridoos are sometimes made of metal or plastic, but most are still made the old way, from a hardwood tree that has been hollowed out by wood-eating termites.

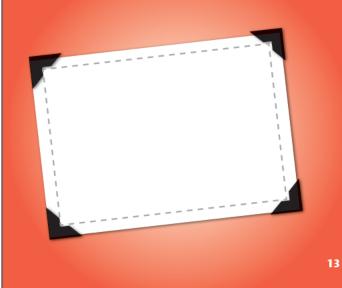


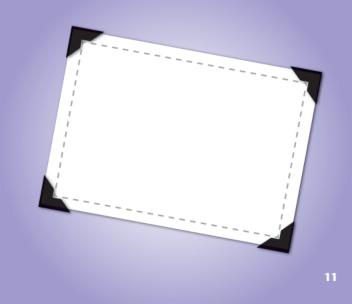
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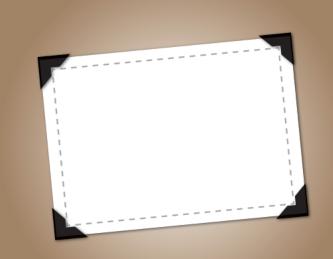
6

The sitar from India looks a little like a guitar with a long, long neck. Its rounded body is made from a large, hard-shelled gourd. Sitars usually have 18, 19, or 20 strings. Players pluck only 7 of the strings, but when those strings vibrate, they cause other strings to vibrate too.







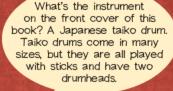


Making Music around the World

All over the world, people love making music. But the instruments they play may not be ones you know.

Can you name the seven musical instruments shown in these photos? You'll know them all when you make this book. Just match each instrument with its description. Turn this page over to see how to make the book. What's your favorite instrument?





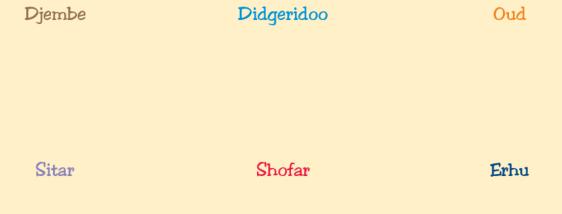




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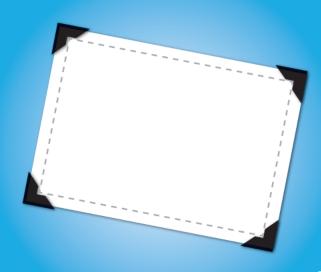
Bonang	Making the Book Cut out the four large rectangles along the dashed lines and fold each in half along the solid line. Put the folded pages in order according to their page numbers. Ask a grownup to staple or sew the pages together at the fold. Now cut out the seven instrument photos, and tape or glue each one where it belongs in
	the book.



Oud

One of the world's oldest stringed instruments, the oud has been played for thousands of years in the Middle East and North Africa. It has a big, pear-shaped body made of wood and a short, smooth, bent neck. Most ouds have 11 strings.





L

Djembe

Musicians play the djembe drum with their hands, not drumsticks. They can produce different notes by using different parts of their hands to hit different spots on the drumhead. Djembes are shaped like goblets and were originally carved in West Africa from a single piece of solid wood.



Erhu

14

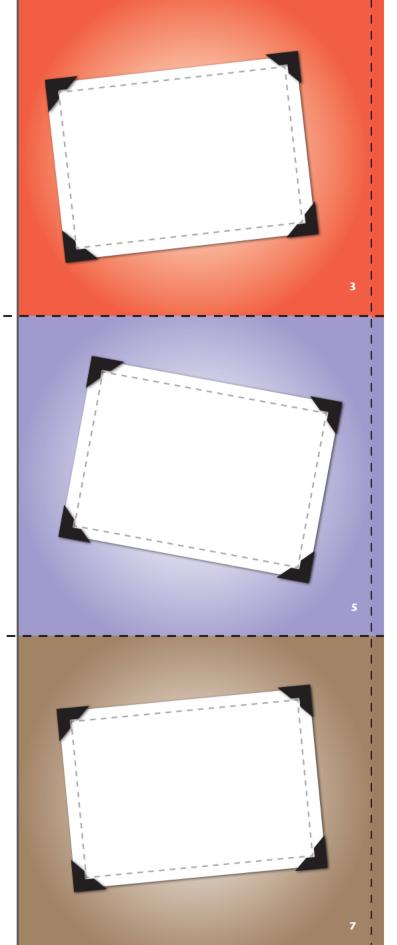
The erhu is sometimes called the Chinese violin. Like the violin, it is played with a bow. But the erhu has only two strings instead of a violin's four. It's held differently too. A violin rests on a player's shoulder with the strings stretching out. An erhu rests on the musician's lap with the strings going up and down.

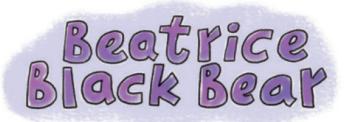
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Shofar

A shofar is an ancient kind of trumpet made from the horn of an animal, usually a ram. The horn can be straight or curly or curved and any natural color. Large horns sound deeper than short ones. Nowadays, shofars are mostly blown as part of important Jewish holidays.







The World's Most Music-loving Bear By John Grandits Illustrated by Paige Billin-Frye

When you feel like hearing beautiful music, it's fun to go to a beautiful place to hear it.

Volume 22

Number 4

April 2019

The Sydney Opera House in Australia sits right on the edge of the water. It reminds me of giant sailboats. Inside, you can sit and listen to a fabulous orchestra.

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The Hollywood Bowl is in California. The audience sits on chairs that gradually go up the side of a hill. On a beautiful night you can enjoy the music and gaze up at the stars.



But if it starts to rain, get ready to run for shelter.

Click® Teacher Guide: April 2019

click

Let's Make Music

Students will learn how sounds and voices can perform independently, as well as together to make beautiful music. This issue of *Click* brings young readers on a musical exploration that studies human-made sounds, natural sounds, and an amazing combination of both.

CONVERSATION QUESTION

How is music made?

TEACHING OBJECTIVES

- Students will learn about the four families of musical instruments in an orchestra.
- Students will learn about amazing structures in nature that make music.
- Students will learn how animals and insects stridulate as a form of communication.
- Students will obtain and classify specific information from a nonfiction text.
- Students will collect evidence and record evidence.
- Students will construct explanations from a science-based text.
- Students will examine the role that music has played throughout history.
- Students will explore how mathematics are an integral component of musical compositions.
- Students will discover how the literary device, onomatopoeia, can enhance stories and texts.



In addition to supplemental materials focused on core STEM skills, this flexible teaching tool offers vocabulary-building activities, questions for discussion, and crosscurricular activities.

SELECTIONS

- At the Orchestra
 Expository Nonfiction, ~750L
- Big Music

Expository Nonfiction, ~950L

• Critter Fiddlers

Expository Nonfiction, ~650L

Click[®] Teacher Guide: April 2019

At the Orchestra

pp. 8–11, Expository Nonfiction Students will go on a musical journey that examines the many instruments that are played in an orchestra. The informative content is accompanied by simple text boxes and photographs.



RESOURCES

Music to My Ears

OBJECTIVES

- Students will learn about the four families of musical instruments in an orchestra.
- Students will obtain and classify specific information from a nonfiction text.
- Students will examine the role that music has played throughout history.

KEY VOCABULARY

- **buzz** (p. 8) to make a low, continuous humming sound
- coiled (p. 8) forming rings or spirals
- *hollow* (p. 8) having a hole or empty space inside

ENGAGE

Conversation Question: How is music made?

Play recordings of music performed by different orchestras. Challenge students to name instruments that they hear. Discuss emotions that are evoked by certain sounds and continue to the vocabulary activity below.

INTRODUCE VOCABULARY

Post and analyze the key terms and their definitions. Reveal the title of the article, "At the Orchestra," and discuss the theme of the article. Ask students which key word could best describe a sound (*buzz*), a tube (*hollow*), and a spring (*coiled*).

READ & DISCUSS

Have students study the graphics and read the article. Use the following prompts to discuss the sounds and instruments presented in the text.

- How many families of musical instruments are in an orchestra? List them.
- Why does a musician press different valves on brass instruments?
- What is the main difference between many of the instruments in the string section?
- Why do you think that percussion musicians often play many different instruments during a concert?

CONCEPT/SKILL FOCUS: Classifying Information

INSTRUCT: Guide students to obtain information from the text, captions, and photos in the article. Remind students that the article was written to teach readers about the four different families of instruments that form an orchestra. Introduce the *Music to My Ears* graphic organizer and instruct students to record their findings. For younger students, lead the activity and demonstrate how to mark the correct column.

ASSESS: Review the information that the students recorded on their charts. If any errors are noted, redirect the students to the text to make corrections. Encourage peer remediation.

EXTEND

Social Studies Invite students to brainstorm how music has been used by man throughout history to enhance different occasions. Have them consider birthdays, religious celebrations, holiday festivities, etc. Allow children to share their experiences aloud.

Music to My Ears

Use information from the article, "At the Orchestra," to classify the instruments below. Place an X in the correct column. At the bottom of the chart, list a different instrument that belongs in the section marked.

Instrument	Brass	Percussion	Strings	Woodwind
violin				
trumpet				
bassoon				
kettledrums				
	X			
		X		
			X	
				X

The complimentary Teacher's Guide is brought to you courtesy of Cricket Media[®] and Flipster[®] Digital Magazines.

Click® Teacher Guide: April 2019

Big Music

pp. 21–23, Expository Nonfiction Young readers will be delighted to learn how music can be "larger than life." Bright photographs allow children to better understand and appreciate some of the world's most amazing musical structures.



RESOURCES

Soothing Sounds

OBJECTIVES

- Students will learn about amazing structures in nature that make music.
- Students will collect evidence from a nonfiction text.
- Students will explore how mathematics are an integral component of musical compositions.

KEY VOCABULARY

- *key* (p. 22) a lever or button pressed by the finger to operate an instrument such as a piano or organ
- marble (p. 22) a special stone that can be highly polished and used for sculptures
- *stacked* (p. 21) arranged vertically, usually in a neat pile
- stalactite (p. 22) pointy rocks hanging like icicles from the roof of a cave, formed from minerals and dripping water

ENGAGE

Conversation Question: How is music made?

Take students on a "sound walk" through your school and playground, if possible. Encourage them to discuss the different sounds they hear. Are they natural or human-made? Guide students to consider how "sounds" become "music." Throughout the week, invite any students (and their relatives) to play an instrument for the class.

INTRODUCE VOCABULARY

Discuss the key vocabulary words and definitions with your students. Provide them with paper and instruct them to fold it into quarters. Have them make a visual representation (picture dictionary) of each key term. Draw attention to these words as you read.

READ & DISCUSS

Reinforce understanding of the musical concepts in this article by using the following prompts to direct discussion.

- How does the tune of "The Singing Ringing Tree" change?
- Which instrument has pipes hidden under the sea?
- What is the world's largest instrument? Explain.
- Can you find the locations of these instruments on a world map? Ask a grownup for help, if needed.

CONCEPT/SKILL FOCUS: Collecting Evidence

INSTRUCT: Review how the various structural instruments discussed in the article have different features and sounds. Distribute the graphic organizer, *Soothing Sounds*, and explain to the students that they will "show & tell," using words and pictures, how each instrument listed is able to make beautiful music. Encourage the children to revisit the text and graphics to obtain the required information.

ASSESS: Circulate and guide conversations toward locating relevant information in the article. Foster peer assistance. Collect and review graphic organizers to further evaluate understanding.

EXTEND

Mathematics Explain very basic musical composition by teaching students to hear the "math in music." Discuss simple rhythms and time signatures and have the class repeat simple beats and rests by clapping or tapping. Accompany the patterns with simple counting. Instruct them to work with a partner to echo each other's rhythms and to count aloud to the beat. Be creative . . . there may be objects in your classroom that you can use as simple instruments!

1

Soothing Sounds

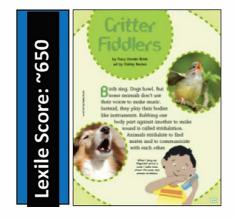
Reread the article, "Big Music." Use words and pictures (show & tell) to explain how each instrument makes music.

INSTRUMENT	SHOW (Use pictures)	TELL (Use words)
The Singing Ringing Tree		
The Zadar Sea Organ		
The Great Stalacpipe Organ		

Click[®] Teacher Guide: April 2019

Critter Fiddlers

pp. 23–26, Expository Nonfiction Chirp ... click ... hum! Delve into this article about animal and insect sounds to help students discover that communication in the natural world often occurs without voice.



RESOURCES

Body Beats

OBJECTIVES

- Students will learn how animals and insects stridulate as a form of communication.
- Students will construct explanations from a science-based text.
- Students will discover how the literary device, onomatopoeia, can enhance stories and texts.

KEY VOCABULARY

- *chirp* (p. 24) a short, high-pitched sound
- click (p. 24) a short, sharp sound
- stridulation (p. 23) the act of producing sound by rubbing together certain body parts

ENGAGE

Conversation Question: How is music made?

Assign small groups and challenge the students to brainstorm ways they can create sound with their bodies. Determine circumstances in which various sounds might be utilized. (Ex: clapping for applause) Motivate the students to read by revealing the article's title and connecting it to this activity.

INTRODUCE VOCABULARY

Introduce the most impressive word from the article, *stridulation*. Primary students enjoy learning big words, so begin by teaching the pronunciation and meaning of this word. Have students tap out the syllables and discuss which letters are consonants and which are vowels. Post the other two key terms and guide students to consider how clicks and chirps can be examples of stridulation. Additionally, challenge students to teach this "big word" to someone at home!

READ & DISCUSS

Have the small groups from the brainstorming activity discuss the questions below after the reading. Reconvene and share responses.

- Why do some animals/insects stridulate?
- How does a cricket sing?
- What special body part does a cicada use to make sounds?
- How does a manakin use its feathers to make sounds?

CONCEPT/SKILL FOCUS: Construct Explanations

INSTRUCT: Advise students to review the article and to study the variety of ways that stridulation occurs. Distribute the graphic organizer, *Body Beats*, and instruct the class to locate each animal/insect listed on the chart and to explain how they make sounds with their body. They will use information directly from the text to complete the organizer.

ASSESS: Collect and analyze the *Body Beats* worksheet to further evaluate the students' ability to construct explanations from the text. Consider peer remediation if clarification is necessary.

EXTEND

Language Arts Present the students with examples of onomatopoeia by using excerpts from Dr. Seuss books, comic books, graphic novels, and other children's literature. Relate this lesson to appropriate words from this article (*chirp*, *click*, etc.). Discuss why this literary device is useful and enjoyable. Have the children do a word search through this issue of *Click* to locate and highlight other expressions of onomatopoeia. Use the vocabulary activity above to study this big word, as well!

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Body Beats

Use information from the article to write/draw how each insect or animal makes sounds with its body.

Insect/Animal	How does it make sounds with its body?
cricket	
cicada	
grasshopper	
manakin	

**Use the back of this paper to draw an animal that uses its VOICE to make sounds. Hint: Woof! Meow! Neigh! Moo! Baa!

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