



#### Oxford Read and Discover

# Sound Music

#### **Richard Northcott**

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#### OXFORD

Great Clarendon Street, Oxford 0x2 6DP

Oxford University Press is a department of the University of Oxford. It furthers the University's objective of excellence in research, scholarship, and education by publishing worldwide in

Oxford New York

Auckland Cape Town Dar es Salaam Hong Kong Karachi Kuala Lumpur Madrid Melbourne Mexico City Nairobi New Delhi Shanghai Taipei Toronto

With offices in

Argentina Austria Brazil Chile Czech Republic France Greece Guatemala Hungary Italy Japan Poland Portugal Singapore South Korea Switzerland Thailand Turkey Ukraine Vietnam

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First published 2011 2015 2014 2013 2012 2011 10 9 8 7 6 5 4 3 2 1

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ISBN: 978 0 19 464384 9

An Audio CD Pack containing this book and a CD is also available, ISBN 978 0 19 464424 2

The CD has a choice of American and British English recordings of the complete text.

An accompanying Activity Book is also available, ISBN 978 0 19 464394 8

Printed in China

This book is printed on paper from certified and well-managed sources.

#### ACKNOWLEDGEMENTS

Illustrations by: Alan Rowe pp.24, 30, 34, 41, 42, 46, 47; Kelly Kennedy pp.4, 19, 22; Ian Moores pp.5, 7, 8, 15, 28; Dusan Pavlic/Beehive Illustration pp.24, 30, 34, 38, 42, 46, 47.

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With thanks to Mary Colson for checking music content



# Introduction

Listen to the sounds around you. What can you hear? Can you hear cars? Can you hear people's voices? Maybe you can hear a television, or music on the radio.

Look at these pictures. What are these sounds? Do you like these sounds? Which sounds are music? What type of music do you like?





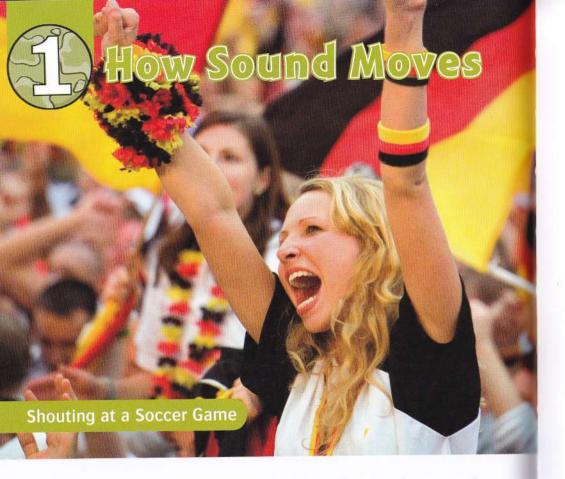








Now read and discover more about sound and music!



When you speak, sing, or shout, the sound of your voice moves through the air. The sound goes to other people, and they hear it. Sound moves very fast.

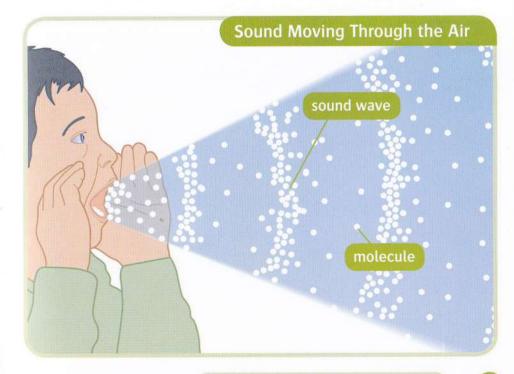
Sound moves through air at about 350 meters per second. The sound of a bus moves faster than the bus!



How does sound move through the air?
The air is made of billions of molecules.
The molecules are very small, so you can't see them.

Your voice pushes the molecules. The molecules move like waves in the ocean. The movements of the molecules are called sound waves.

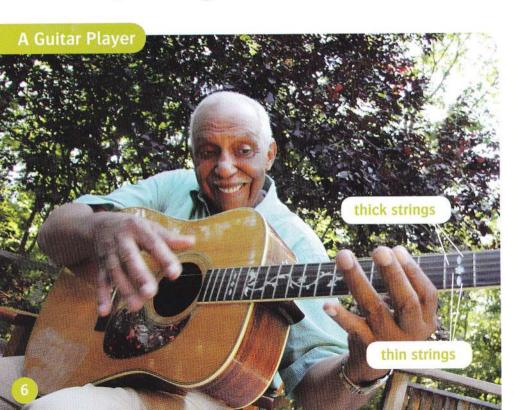
The sound waves from loud sounds go far. The sound waves from quiet sounds don't go far.





Some sounds are low and some sounds are high. We can hear low sounds and high sounds everywhere. A plane makes a low sound, but when birds sing, they make a high sound.

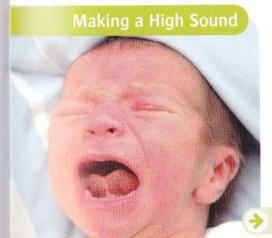
Think about the strings of a guitar. The thin strings make a high sound and the thick strings make a low sound.





The thin guitar strings vibrate fast. You can't see them move. The thick strings vibrate slowly. These different types of vibration are called frequency. The sound of the thin strings has a high frequency. The sound of the thick strings has a low frequency.

A baby's cry makes a high sound and it has a high frequency. A truck makes a low sound and it has a low frequency. A baby's cry is made of lots of thin sound waves. The sound waves from a truck are thicker.



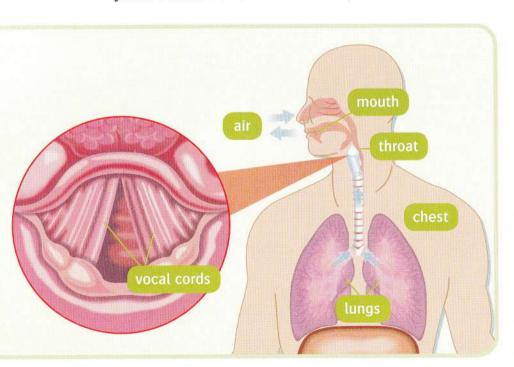




## Your Voice

Everyone's voice is different. A man's voice is usually lower than a woman's voice.

Put your hand on the front of your throat and say something. When you speak, your throat vibrates. In your throat, you have vocal cords. When you speak, air from your lungs goes between your vocal cords, and your vocal cords vibrate.





When you sing, you use your mouth, your throat, and your chest. You make your vocal cords shorter or longer, so that you can sing high notes or low notes. Singers can learn

how to use their body, so that they can sing better. Some singers have teachers who help them.

Some people in Siberia can sing two notes at the same time. They are called throat-singers.



Let's look at different musical instruments. Some are called wind instruments. Players use air from their lungs when they play a wind instrument.

Trumpet players press the trumpet on their lips and they blow air into the trumpet. Their lips vibrate, then the air in the trumpet vibrates and makes a sound.





When a drummer hits a drum, the air in the drum vibrates and makes a sound. Other instruments, like cymbals or xylophones, make a sound when the player hits them. These instruments are called percussion instruments.

Guitars, violins, and cellos are stringed instruments. Guitar players pluck the strings of a guitar, but violin and cello players use a bow. They touch the strings with the bow and the strings vibrate.



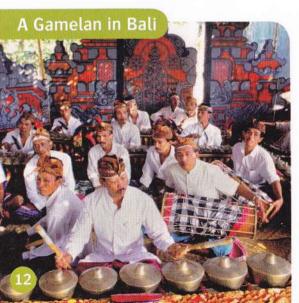


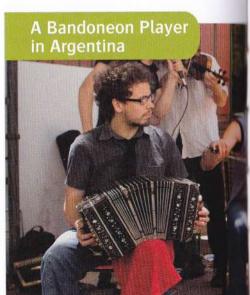
# Music Around the World

Around the world you can find thousands of different musical instruments.

In Bali in Indonesia, there are orchestras called gamelans. In a gamelan there are lots of different percussion instruments. The players in a gamelan usually sit on the floor.

The bandoneon is a type of wind instrument. It's like a box with air inside. You squeeze it and it makes a sound. In Argentina, you can listen to bandoneon players in the streets.

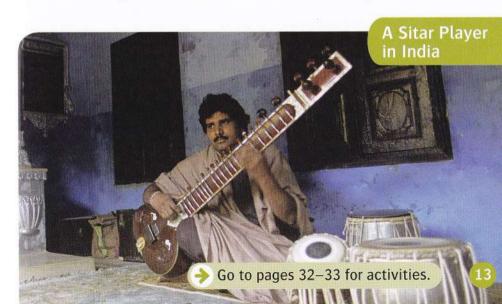






The koto is a stringed instrument from Japan. It has 13 strings. Koto players pluck the strings with their thumb and two fingers. The players move the small, white bridges to make different notes.

The sitar is a stringed instrument from India. It isn't easy to play. It has lots of strings. Some sitars have 23 strings.



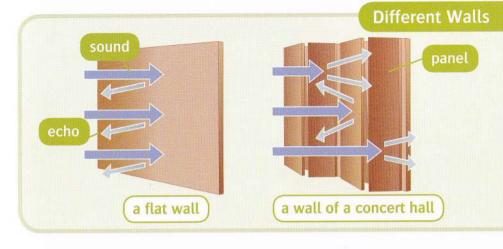


# Orchestras and Concerts

The musicians in an orchestra listen to their instrument, and to all the other instruments at the same time. The musicians watch their conductor, too.

Musicians in an orchestra always practice before a concert. When they practice, the conductor sometimes tells them to play slower, or more loudly. Conductors move their hands and arms to help the orchestra.





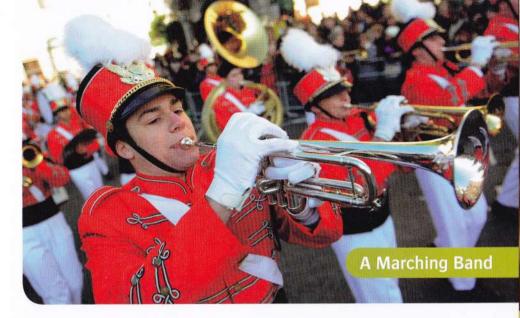
Not all rooms are good for concerts. In a room with flat walls, the sound of the music can bounce off the walls and make an echo. In concert halls, the walls are not flat. They are usually made of different panels. The sound bounces in different ways so there's no echo.





When you listen to music, you sometimes want to tap your foot. When you listen to music with a strong rhythm, you want to dance.

What is rhythm? Sing your favorite song, and tap your foot, too. The sound of your foot is the rhythm of the song. The rhythm of a rock band is strong. When you listen, you want to move or dance.



All music has rhythm, but there are different types of rhythm. The rhythm of a marching band is always the same, like the sound of marching.

In flamenco music from Spain, the rhythm gets faster and slower. Flamenco dancing is sometimes slow, and sometimes fast. It's very exciting!

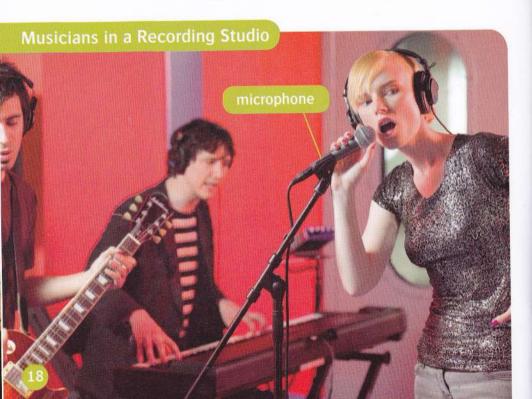


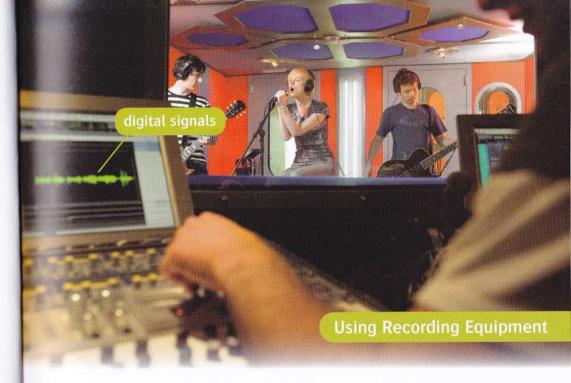


# Recording Music

Today there's music everywhere. People listen to music at home or in their car. With an MP3 player, they can listen to their favorite songs when they are on a train or walking in the streets.

Where does a song come from? First, a songwriter writes a song and musicians play it. They practice, then they play the song in a recording studio in front of a microphone.





In the studio, a sound engineer uses recording equipment and records the song. Now the song is a lot of digital signals. The sound engineer uses a computer and works with the signals. This makes the sound of the song better.

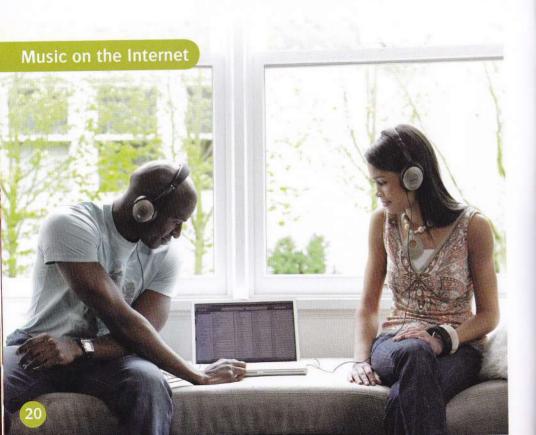
The first sound recordings were about 130 years ago.
The first microphones were like big trumpets.





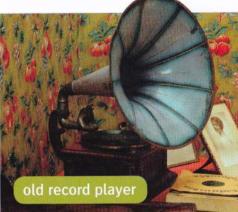
# Buying Music

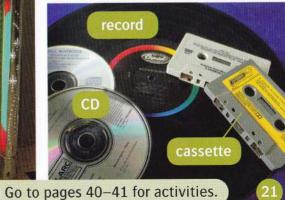
Today, people can buy music on the Internet. The music comes to their computer or phone. The music is made of thousands of digital signals. These signals stay on the computer or phone, and people can listen to the music when they want. People can also move the music from their computer to their MP3 player.

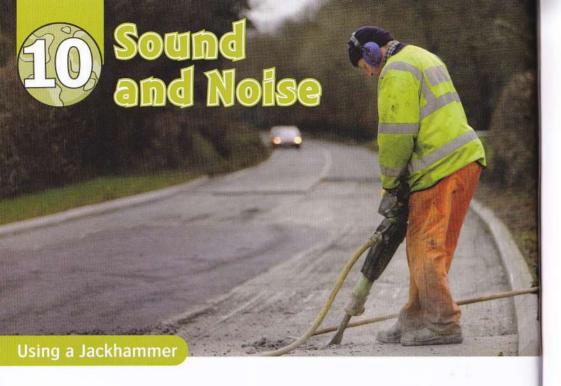


In the past, it wasn't so easy to buy music. About 100 years ago, people started to buy records. They played them on record players. Later, there were big jukeboxes in cafés. In a jukebox there were about 50 records. People put coins in the jukebox and it played their favorite song. About 40 years ago, there were cassettes. They were good because people played them in their cars. Then about 30 years ago, there were compact discs, or CDs.









We measure sound in decibels. The sound of a quiet wind is 10 decibels. When people speak, their voices are about 50 decibels. A jackhammer is about 100 decibels. Sounds of more than 120 decibels can be bad for your ears. A very loud sound or a bad sound is usually called a noise.

Some animals can hear better than people.
Your cat can hear more sounds than you!



Don't listen to very loud music with earphones. It can hurt your ears. Other loud noises can be good, like the sound of a car. It tells you, 'A car is coming.

Don't cross the street now.' Always listen carefully before you cross the street.

Listen to music, listen to people's voices, listen to the wind. Use your ears and listen to all the sounds around you!



# 1 How Sound Moves

Read pages 4–5.

1 Write the words.

shout molecule push sound waves voice waves







---



2



5



6 \_\_\_\_\_

2 Complete the sentences.

fast molecules move shout voice waves

- 1 When you <u>shout</u>, the sound of your voice moves through the air.
- 2 Other people can hear the sound of your \_\_\_\_\_
- 3 There are billions of \_\_\_\_\_ in the air.
- 4 Molecules \_\_\_\_\_ like waves in the ocean.
- 5 Sound \_\_\_\_\_ are movements of molecules.
- 6 Sound moves very \_\_\_\_\_\_.

#### 3 Match. Then write the sentences.

The girl is

Her voice is pushing

Other people

Sound moves

The sound of a bus

What sounds can

the molecules through the air.
moves faster than the bus.
at 350 meters per second.
shouting.
you hear now?
can hear her.

1	The girl is shouting.
2	
3	
4	
5	
6	
A	nswer the questions.
1	Where are you now?
	Where are you now?  What sounds can you hear?
2	

### 2 Low Sounds, High Sounds

← Read pages 6-7.

#### 1 Complete the sentences.

hahu authau hurak high lau

	baby gui	tal truck flig	i tow	
1	Α	has thin stri	ngs and	thick strings.
2	The thin	strings make a _		_ sound.
3	The thick	strings make a		sound.
4	The sound	d of a /.	_'s cry ha	as a high
5	The soun	d of a	has a lo	w frequency

#### 2 Write true or false.

1	When birds sing, they make a low sound.	false
2	A guitar has thin strings and thick strings.	
3	A guitar can make high sounds and low sounds.	
4	The thin strings of a guitar make a low sound.	

5 The sound of a truck has a high frequency.

6 The sound waves from a truck are thin.

3	<b>Find</b>	and	write	the	words.

msoundd	stringhguis	
thickey.	atestuck bireas	
1 low	6	
2	7	
2	Ω	

#### 4 Complete the chart.

a thin guitar string a truck a baby's cry a bird's song a plane a thick guitar string

Things That Make a High Sound	Things That Make a Low Sound
a thin guitar string	wood of a bounded in
alous to see a suell	
	21/1/2/2017

# 3 Your Voice

Read pages 8-9.

#### 1 Write the words.

lungs chest mouth air throat vocal cords

1 \_\_\_\_\_\_
2 \_\_\_\_
3 \_\_\_\_
4 \_\_\_\_
5

#### 2 Write higher or lower.

- 1 A man's voice is <u>lower</u> than a woman's voice.
- 2 A baby's voice is \_\_\_\_\_ than a man's voice.
- 3 On a guitar, the sound of a thin string is \_\_\_\_\_\_ than the sound of a thick string.
- 4 The sound of a plane is \_\_\_\_\_ than a bird's song.
- 5 A girl's voice is \_\_\_\_\_ than a man's voice.

#### 3 Complete the sentences.

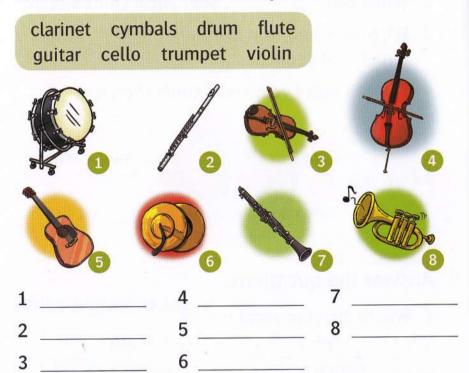
	high longer mouth notes speak throat
1	Your vocal cords are in your
2	When you, your vocal cords vibrate.
3	When you sing, you use your, your throat, and your chest.
4	You can make your vocal cords shorter or
5	Some people can sing notes and low notes.
6	Some people can sing two at the same time.
A	nswer the questions.
1	Where are your vocal cords?
2	What do your vocal cords do when you speak?
3	Which is usually higher — a man's voice or a woman's voice?
4	What can Siberian throat-singers do?

# 4

### **Musical Instruments**

← Read pages 10-11.

1 Write the words. Then complete the chart.



Wind Instruments	Percussion Instruments	Stringed Instruments
		- projekty i

2	Circl	a tha	correct	words
dia	CITC	e me	conect	words

- 1 Percussion instruments make a sound when the player hits / plucks them.
- 2 Xylophones are wind / percussion instruments.
- 3 All stringed / wind instruments have strings.
- 4 Players pluck the strings or use a drum / bow.
- 5 Cellos / Trumpets and flutes are wind instruments.
- 6 When the air / voice in a trumpet vibrates, it makes a sound.
- 3 Complete the sentences about you. Write can or can't.

1	play the guitar.
1	play the guitar

- 2 I \_\_\_\_\_ sing.
- 3 I \_\_\_\_\_ play the trumpet.
- Write about your friends and family.

My friend	Serena ca	an't play the gui	tar.



### **Music Around the World**

4	Read	pages	12-1
6	ncuu	pages	

#### 1 Circle the odd one out.

- 1 sitar gamelan bandoneon koto
- 2 world Japan Argentina India
- 3 play squeeze floor pluck
- 4 percussion wind stringed orchestra
- 5 thirteen two thumb twenty-three

#### 2 Write true or false.

- 1 There are only two players in a gamelan.
- 2 There are lots of percussion instruments in a gamelan.
- 3 A bandoneon is like a box.
- 4 You hit a bandoneon to make a sound.
- 5 A koto has three strings.
- 6 Koto players pluck the strings with their thumb and fingers.
- 7 It's easy to play a sitar.
- 8 All sitars have 23 strings.

#### 3 Complete the sentences.

floor notes orchestras play streets strings

1 People \_\_\_\_\_\_ sitars in India.

2 Some sitars have 23 \_\_\_\_\_.

3 In Argentina, people play the bandoneon in the \_\_\_\_\_.

4 Koto players move the bridges to make different \_\_\_\_\_.

5 There are \_\_\_\_\_ in Bali called gamelans.

6 In a gamelan, the players sit on the \_\_\_\_\_.

#### 4 Match. Then write complete sentences.

sitar bandoneon gamelan koto

an orchestra
a stringed instrument
a wind instrument
a stringed instrument

Indonesia Japan Argentina India

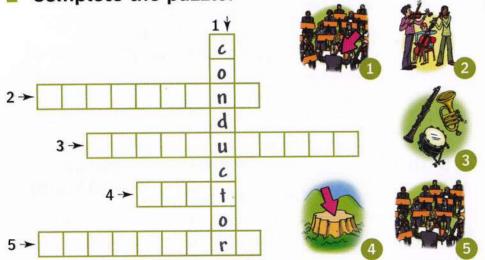
A	sitar	is	a	stringed	instrument	from	India.	

- 2 \_\_\_\_\_
- 3 \_\_\_\_\_
- 4 \_\_\_\_\_

# 6 Orchestras and Concerts

Read pages 14-15.

#### 1 Complete the puzzle.



#### 2 Find and write the words.

concertmmusicianbinstrumentylistenh watchsoundwbouncekwalldechoypanel

1	6	
2	7	4
3	8	
4	9	
E	10	

#### 3 Complete the sentences.

conductor hall help musicians practice walls

dill	
1	There are lots of in an orchestra.
2	The musicians always watch the
3	Conductors move their hands and arms to
	the orchestra.
4	Musicians in an orchestra before a concert.
5	A big room where concerts happen is called a
	concert
6	The of concert halls are usually made of different panels.
A	nswer the questions.
1	Who was Wolfgang Amadeus Mozart?
2	Where was he from?
3	Where is Salzburg?
4	Who are the great musicians in your country?



Read pages 16–17.

-40		200000	-		•	
***	11/	rito	true	Or	12	CO
	vv	HILE	uue	U	Ia	DE.

- 1 All music has rhythm.
- 2 All music has the same rhythm.
- 3 The music at rock concerts has a strong rhythm.
- 4 The rhythm of a marching band gets faster and slower.
- 5 Flamenco music is from Spain.
- 6 Flamenco music is always slow.

#### 2 Match. Then write the sentences.

You tap your foot
There are different
The rhythm of a
marching band
The rhythm of
flamenco music

is always the same. when you listen to music. gets faster and slower. types of rhythm in music.

1		
2	4	
3		

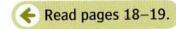
3	Ord	<b>^</b> r	tha	words.
-	Olu	eı	uie	worus.

- 1 are / There / types / of / rhythm. / different
  There are different types of rhythm.
- 2 is / strong. / rock / band / The / rhythm / of / a
- 3 music / Spain. / Flamenco / is / from
- 4 exciting. / very / is / Flamenco / dancing

#### 4 Answer the questions.

- 1 What is your favorite song?
- 2 Can you sing it and tap your foot at the same time?
- 3 Does it have a strong rhythm?
- 4 What music has a fast rhythm?
- 5 What music has a slow rhythm?

# **Recording Music**



#### Write the words.

microphone sound engineer MP3 player recording studio musicians digital signals













#### Number the sentences in order.

The musicians go to a recording studio.

The musicians play the song in front of a microphone.

Musicians practice the song.

A songwriter writes a song.

A sound engineer records the song.

W	rite correct sentences.
1	Today, people have MP3 songs.
	Today, people have MP3 players.
2	They can't listen to their MP3 player in the streets.
3	A microphone writes songs.
4	A sound engineer works in a store.
5	A sound engineer doesn't have a computer.
A	nswer the questions.
1	Where do people listen to their MP3 player?

	-						7
2	Where	do	musi	cians	record	their	songs?

3 What does a sound engineer do?

4 Do you have an MP3 player?

# 9 Buying Music

← Read pages 20–21.

#### 1 Write true or false.

- 1 People can buy music on the Internet.
- 2 About 100 years ago, people had CDs.
- 3 People had jukeboxes in their homes.
- 4 There were records in jukeboxes.
- 5 People put coins in jukeboxes.
- 6 Cassettes came later than CDs.

#### 2 Match. Then write the sentences.

About 100 years ago, Later, they listened to Today, people can buy Compact discs are Do you jukeboxes in cafés. called CDs. people had record players. have an MP3 player? music on the Internet.

#### 3 Find and write the words.



1	6	
2	7	
3	8	
4	9	
5	10	

#### 4 Complete the sentences.

CDs everywhere home Internet player songs

á			32
		7	<b>5</b>
6	JC	0	To the
	G		7
		2	
		100	•

I like music. There are lots	of on my
computer. I have an MP3 _	, so I can
listen to music	. When I want to buy
a new song, I buy it on the	e My
mother and father have	They listen
to their CDs at	or in the car.

# 10 Sound and Noise

← Read pages 22–23.

#### 1 Write the words.

cat wind earphones car jackhammer street







1 \_\_\_\_\_

2 \_\_\_\_\_

3







4 \_\_\_\_\_

5 \_\_\_\_\_

6 \_\_\_\_

#### 2 Circle the correct words.

- 1 We measure / hear sound in decibels.
- 2 A jackhammer / voice is about 100 decibels.
- 3 It's bad / good to listen to loud music with earphones.
- 4 Some loud noises can be / is good.
- 5 Cats can see / hear more sounds than people.

#### 3 Complete the sentences.

	ä	animals bad coming car measure listen					
	1	1 We sound in decibels.					
	2	2 Sounds of more than 120 decibels can be					
		for your ears.					
3 Some can hear better than people.							
4 The sound of a can help us.							
5 It tells us, 'A car is'							
	6	Always before you cross the street.					
	Aı	Answer the questions.					
	1	1 How many decibels are people's voices when they speak?					
	<ul> <li>2 Is the sound of a car a quiet sound?</li> <li>3 Is the noise of a jackhammer very loud?</li> <li>4 Do you like the sound of the wind?</li> </ul>						
5 What sounds do you like?							

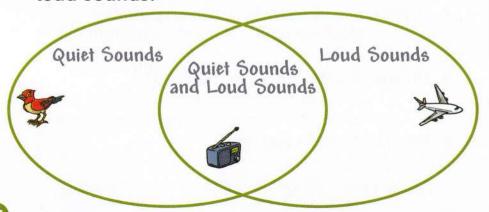


### **A Sounds Poster**

Make a list of things that make sounds.

a bird		
a radio		
a plane		

- 2 Find photos of these things, or draw pictures.
- 3 Make a poster. Show things that make quiet sounds, loud sounds, or quiet sounds and loud sounds.



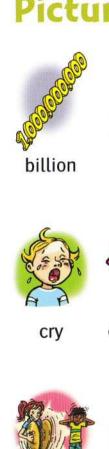


Interview a friend. Write notes.

Name:
1 What type of music do you like?
2 Who is your favorite singer?
3 What is your favorite song?
4 Do you have an MP3 player?
5 Do you buy music on the Internet?
6 Do you listen to CDs?
7 Can you play a musical instrument?

Write sentences about your interview.
Display your work.

### **Picture Dictionary**







buy



café



coins





cross



pluck



press



push



quiet



radio

earphones

flat

hurt

lips

rock band shout sound

sound sound engineer waves





















loud

man

march

measure

MP3 player

squeeze

street

tap your foot

thumb

touch



















musical instruments

musicians

notes

ocean

orchestra

vibrate

voice

waves

woman

xylophone



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Subject Area Level	The World of Science & Technology	The Natural World	The World of Arts & Social Studies
600 headwords	<ul> <li>How We Make Products</li> <li>Sound and Music</li> <li>Super Structures</li> <li>Your Five Senses</li> </ul>	<ul><li>Amazing Minibeasts</li><li>Animals in the Air</li><li>Life in Rainforests</li><li>Wonderful Water</li></ul>	Festivals Around the World     Free Time Around the World
750 headwords	All About Plants     How to Stay Healthy     Machines Then and Now     Why We Recycle	<ul> <li>All About Desert Life</li> <li>All About Ocean Life</li> <li>Animals at Night</li> <li>Incredible Earth</li> </ul>	Animals in Art     Wonders of the Past
900 headwords	<ul> <li>Materials to Products</li> <li>Medicine Then and Now</li> <li>Transportation Then and Now</li> <li>Wild Weather</li> </ul>	All About Islands     Animal Life Cycles     Exploring Our World     Great Migrations	Homes Around the World     Our World in Art
1,050 headwords	Cells and Microbes     Clothes Then and Now     Incredible Energy     Your Amazing Body	All About Space     Caring for Our Planet     Earth Then and Now     Wonderful Ecosystems	Helping Around the World     Food Around the World

For younger students, Dolphin Readers Levels Starter, 1, and 2 are available.



#### Oxford Read and Discover

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Richard Northcott

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- · What type of musical instrument is a koto?

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Word count for this reader: 1,370



Level 3
600 headwords



Level 4
750 headwords



Level 5
900 headwords



Level 6 1,050 headwords

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