

# 3

# Sound and Music

## Subject Area

The World of Science & Technology

## Topics & Curriculum Links

types of sound (Science; Music)

sound waves (Science)

how the human voice works (Science; Music)

musical instruments (Music)

rhythm (Music)

recording music (Technology; Music)

machines (Science)

countries (Geography)

quantities (Mathematics)

sizes and measurements (Mathematics)

## Vocabulary

musical instruments; parts of the body; products; animals; transportation; machines; numbers; measurements; countries

## Grammar

present simple; present continuous; past simple; question forms; imperative; adjectives; prepositions; adverbs

## Teaching Ideas

See also [pages 6–7](#) for general ideas that you can adapt. Or go to [www.oup.com/elt/teacher/readanddiscover](http://www.oup.com/elt/teacher/readanddiscover)

### Musical Instruments

After reading Chapter 4, students do research, using books or the Internet, to find more musical instruments in English. Then they present their findings in a big version of the chart on page 30 of the Reader.

### A Sounds Poster

After completing Project 1, students make a class poster to present all the sounds that students have included in their posters.

### READ & TALK A Music Survey

After completing Project 2, students collect the survey information from the class. They can do this by listening to each student giving their information in turn, or by collecting the information in a big version of the chart on page 45 of the Reader.

### READ & TALK A Sounds Quiz

Bring in a number of objects that students know the names for in English. Put up a screen and behind the screen, drop an object onto a table. In small groups, students guess what the object is. Or bring in objects that make different noises and present each object's noise from behind the screen. Students can say or write what they think the objects are. Students can then organize their own sounds quiz on another day.

## Activities Answers

**Page 24–25** 1 1 waves 2 shout 3 voice 4 push 5 molecule 6 sound waves  
2 1 shout 2 voice 3 molecules 4 move 5 waves 6 fast 3 1 The girl is shouting 2 Her voice is pushing the molecules through the air.  
3 Other people can hear her. 4 Sound moves at 350 meters per second.  
5 The sound of a bus moves faster than the bus. 6 What sounds can you hear now? 4 free answers

**Page 26–27** 1 1 guitar 2 high 3 low 4 baby 5 truck 2 1 false 2 true 3 true  
4 false 5 false 6 false 3 1 low 2 high 3 sound 4 string 5 guitar 6 thick  
7 thin 8 vibrate 9 truck 10 frequency 4 1 Things That Make a High Sound – a thin guitar string, a baby's cry, a bird's song Things That make a Low Sound – a truck, a plane, a thick guitar string

**Page 28–29** 1 1 air 2 mouth 3 throat 4 chest 5 vocal cords 6 lungs  
2 1 lower 2 higher 3 higher 4 lower 5 higher 3 1 throat 2 speak 3 mouth  
4 longer 5 high 6 notes 4 1 They are in your throat. 2 They vibrate.  
3 A woman's voice. 4 They can sing two notes at the same time.

**Page 30–31** 1 1 drum 2 flute 3 violin 4 cello 5 guitar 6 cymbals 7 clarinet  
8 trumpet Wind Instruments – flute, clarinet, trumpet Percussion Instruments – drum, cymbals Stringed Instruments – violin, cello, guitar 2 1 hits 2 percussion 3 stringed 4 bow 5 Trumpets 6 air  
3 free answers 4 free answers

**Page 32–33** 1 1 gamelan 2 world 3 floor 4 orchestra 5 thumb 2 1 false  
2 true 3 true 4 false 5 false 6 true 7 false 8 false 3 1 play 2 strings  
3 streets 4 notes 5 orchestras 6 floor 4 1 A sitar is a stringed instrument from India. 2 A bandoneon is a wind instrument from Argentina. 3 A gamelan is an orchestra from Indonesia. 4 A koto is a stringed instrument from Japan.

**Page 34–35** 1 1 conductor 2 musicians 3 instruments 4 flat 5 orchestra  
2 1 concert 2 musician 3 instrument 4 listen 5 watch 6 sound  
7 bounce 8 wall 9 echo 10 panel 3 1 musicians 2 conductor 3 help  
4 practice 5 hall 6 walls 4 1 He was one of the greatest musicians.  
2 He was from Salzburg. 3 It's in Austria. 4 free answers

**Page 36–37** 1 1 true 2 false 3 true 4 false 5 true 6 false 2 1 You tap your foot when you listen to music. 2 There are different types of rhythm in music. 3 The rhythm of a marching band is always the same. 4 The rhythm of flamenco music gets faster and slower.  
3 1 There are different types of rhythm. 2 The rhythm of a rock band is strong. 3 Flamenco music is from Spain. 4 Flamenco dancing is very exciting. 4 free answers

**Page 38–39** 1 1 MP3 player 2 digital signals 3 musicians 4 recording studio 5 microphone 6 sound engineer 2 1 A songwriter writes a song. 2 Musicians practice the song. 3 The musicians go to a recording studio. 4 The musicians play the song in front of a microphone. 5 A sound engineer records the song. 3 1 Today, people have MP3 songs players. 2 They can't listen to their MP3 player in the streets. 3 A microphone songwriter writes songs. 4 A sound engineer works in a store recording studio. 5 A sound engineer doesn't have a computer. 4 1 They listen in the streets. 2 In a recording studio. 3 A sound engineer records the song. 4 free answers

**Page 40–41** 1 1 true 2 false 3 false 4 true 5 true 6 false 2 1 About 100 years ago, people had record players. 2 Later, they listened to jukeboxes in cafes. 3 Today, people can buy music on the Internet. 4 Compact discs are called CDs. 5 Do you have an MP3 player?  
3 1 computer 2 Internet 3 records 4 music 5 song 6 jukebox 7 café  
8 coins 9 play 10 listen 4 songs, player, everywhere, Internet, CDs, home

**Page 42–43** 1 1 street 2 cat 3 earphones 4 wind 5 car 6 jackhammer  
2 1 measure 2 jackhammer 3 bad 4 be 5 hear 3 1 measure 2 bad  
3 animals 4 car 5 coming 6 listen 4 1 About 50 decibels.  
2 No, it's a loud sound. 3 Yes it is. 4 free answers 5 free answers