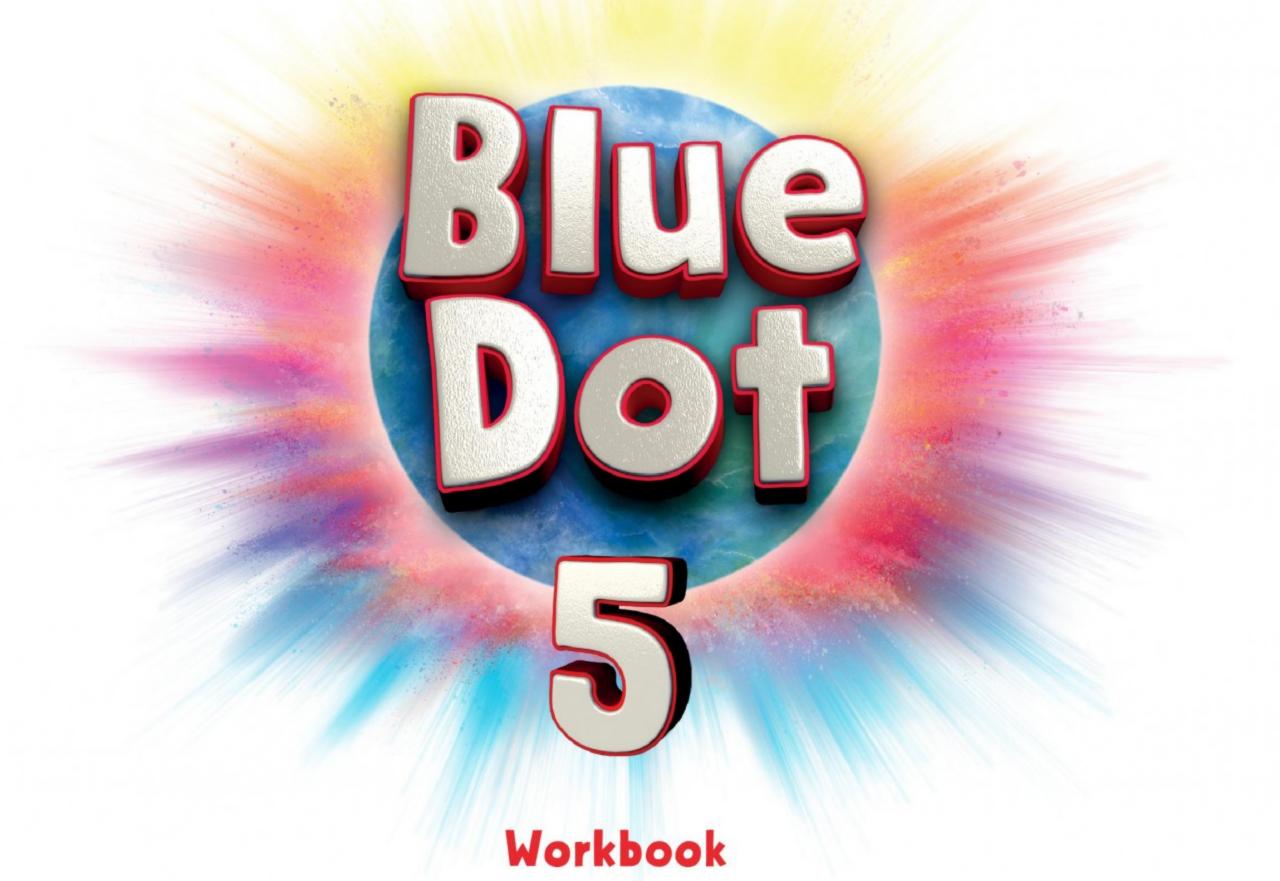




### FIONA BEDDALL • KENNA BOURKE



1	How do people demonstrate intelligence? 2	11	How can our prior knowledge help us? 95
2	When do animals use intelligence?	12	What can sharing knowledge allow us to do? 104
3	What impact can artificial intelligence have on our lives? 20	13	Why do living things adapt?
4	What happens when we change our perspective? 30	14	Why do people adapt to the things around them? 123
5	Why do we think differently about the same situation? 39	15	How does being adaptable in our thinking help us? 132
6	Why is it important to consider other people's perspectives? 48	16	What can imagination inspire us to do?
7	Where do we find beauty? 58	17	How does exercising our imagination help us? 157
8	In what forms can we experience beauty? 67	18	How can we solve problems using our imagination? 160
9	Why does beauty matter?		Writing Extra 170
10	What can we do to acquire knowledge? 86		Grammar Reference

### How do people demonstrate intelligence?

### Vocabulary 1

A	Match	to	make	sent	tences

- 1 If you have good social skills, ...
- 2 If you use good logic, ...
- 3 If you have an advantage in a competition, ...
- 4 If you are an emotional person, ...
- 5 If you make a contribution, ...
- 6 If you have high ability, ...

- a you can win more easily than other people.
- b you can do something well.
- **c** you can solve difficult problems.
- **d** people will thank you for your help.
- e you have strong feelings about things.
- f you can make friends easily.

### B Check (✓) the correct option.

1	There are many ways to de	emonstrate intelligence.
	naturalistic	multiple
2	Are you of writing excit	ing stories?
	develop	capable
3	Painting can help you to	. visual-spatial intelligence.
	engage	develop
4	Can you communicate in .	languages or just one?
	multiple	naturalistic
5	Good skills will help you from around the world.	u to talk to people
	capable	linguistic
6	If you with people from you can learn a lot.	different countries,



linguistic

engage

### Word Study and Grammar

8 I've had a great day.

### A Write a synonym that can replace the underlined word in each sentence. Use words from the other sentences.

1	It was a very <u>amusing</u> movie.	funny
2	Those horses are very <u>fast</u> .	
3	That cheese tastes <u>horrible!</u>	
4	I laughed at his <u>funny</u> costume.	
5	The weather was <u>awful</u> .	
6	What <u>fantastic</u> news!	
7	It's a <u>quick</u> journey by train.	



### B Complete the sentences with the present perfect of the verbs in parentheses.

1	You	(make) a big contribution to the project.
2	She	(never, play) a musical instrument.
3		(they, give) you any help?
4	We	(not do) enough research.
5	Which countries	(he, visit)?
6	Ι	(learn) a lot of science in school this year.
7		(you, ever, teach) a friend how to do something?
8	The new table tennis club	o at school (not start) u

### Read and circle the correct option.

We have ¹been / be hiking all day. At first, the weather was great, but it ²have / 's been raining for an hour. I've ³being / been wearing a raincoat since the rain started, so I haven't been ⁴got / getting wet. My dad ⁵is / has not been wearing a raincoat, and my mom's raincoat is too small for her. They ⁶haven't / aren't been enjoying the last hour!



	omplete the dialogues with the	e present periect continu	aous or the	verbs in parentneses.
1	A: You have paint in your hair!			
	What	(you, do)?		
	B: I	_ (paint) a picture.		
2	A: Where's Fatma?			
	<b>B:</b> She	(rest) in bed all day.		
	She	(not feel) well.		
3	<b>A:</b> Why	(it, snow) so much?		
	B: I don't know, but I hope it sto	ops soon. I		(stay)
	inside all the time to keep wo	arm, and I'm really bored.		
4	A: You look very hot and tired.		(you, plo	ay) basketball?
	<b>B:</b> No, I	(run). I ran for 20 mi	nutes witho	ut stopping!
\A	vito a voacon Uco the procent	norfost sontinuous		
VV	rite a reason. Use the present	periect continuous.		
1	Why is Toyama tired?			
	Because he			•
2	Why are André and Sofia wet?			
	Because they			
3	Why is Chantelle wearing a fun	ny costume?		
	Because she			<u> </u>
D	ead and complete the paragra	unh		
I	edd diid complete the paragra	pii.		3 8 2
	have tried have been t	rying haven't made		4 8 7
	haven't been making have	read have been reading	g	6 5 9 7 8
				3 1 3 6 5
	nis week, I <sup>1</sup>	an interesting bo		9 8 / 2
	telligence. I <sup>2</sup>	half of the book		5 6 9
	has a lot of puzzles in it. I <sup>3</sup>		ome of the	123456789
•	uzzles, and they weren't too diffi		1 7 5	
	find the answer to one of the lo		_	
	uch progress. I've checked my m	3		
a	mistake with that. But somethin	g isn't right. I'll have to ke	ep trying!	

**C**\*\*

What book have you been reading this week? Why have / haven't you been enjoying it?

A Read the magazine article. What types of intelligence does it talk about?

### The Concert: Musical Intelligence and More

You have taken your seat for the concert, and your favorite musicians have started to perform! They're famous for their musical ability, of course. But multiple types of intelligence have made a contribution to your experience of this fantastic concert tonight. Let's take a look.

First, look at the people on stage. The drummer has been hitting the drums so fast that you can't see his drumsticks. He needs

musical intelligence to

keep the rhythm, but he also needs physical

intelligence to be capable of moving the drumsticks like that. The guitarist needs physical intelligence, too, so she can move her fingers to play the right notes and chords.

too, so she can move her fingers to play the right notes and chords.

There's a slow, sad song now. Can you hear the feeling in the singer's voice? He needs emotional intelligence to perform like

intelligence to write a song that communicates those sad feelings so well.

Linguistic intelligence has also contributed to this performance. The songwriter had to be good with words to write the beautiful lyrics. And the band members needed good linguistic intelligence as well as musical intelligence to discuss with

that. The songwriter needed emotional intelligence as well as musical

each other how to make the performance as good as possible.

But that's not all. Your family bought tickets for the concert online. Who did the math to decide how much the tickets should cost so that there was enough money to pay all the workers at the concert? People with strong logical intelligence. It took excellent logical intelligence to design the sound system for the concert, too, and to make the music sound as good as possible.

There are special lights and screen images to make the performance on stage look exciting. People with great visual-spatial intelligence designed those. And what about the huge room where you're sitting? Without an architect with visual-spatial intelligence to design it, that amazing building wouldn't be there!







A concert performance needs all these different types of intelligence to succeed. But there's another person at the concert who is demonstrating intelligence, too: you. It's a sign of your own musical intelligence that you can enjoy the performance tonight. So have fun, and feel smart!



Underline these words in the text.

contribution multiple linguistic capable ability emotional logic

C	On Answer any questions you can without re-reading. Then re-read the article
	and answer the other questions.

Why do people need physical intelligence? Write two examples from the article.
Why did the songwriter need emotional intelligence?
Why did the band members need linguistic intelligence?
What math did people do before anyone could buy tickets?
What is only there because of visual-spatial intelligence?
What does someone in a concert audience need if they want to enjoy the music?

### What types of intelligence does the article say these people demonstrate?

1	guitarist:	 	
2	singer:	 ,	_
3	drummer:	 	
4	songwriter:	 	
5	architect:	C++	

What performances have you been to? What types of intelligence contributed to them?

6 sound system designer:

### A Complete the sentences.

dance routine shape from scratch calculation visualize workshop



1 He could the dragon in the story.



3 She did the on the board.



5 He went to his to make some new pots.



2 Their was fantastic!



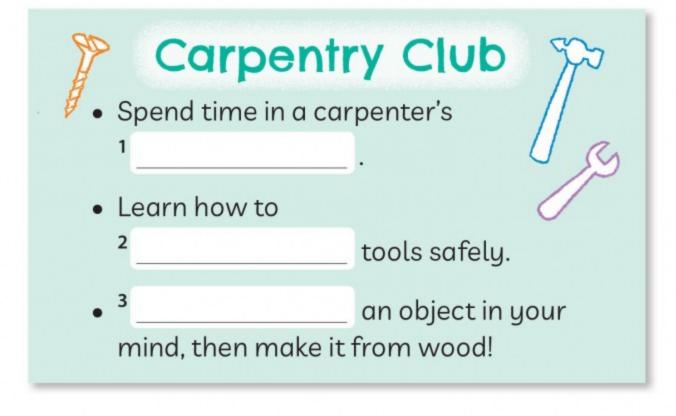
4 It's fun making pasta



sand into **6** She can beautiful sculptures of animals.

B Complete the posters.

handle dance routine athletic visualize workshop





### A Check (✓) the correct option.

		I felt really when my friends went to the beach without me.  clue upset behavior
-		He walked slowly, with his head down. I knew from his that he was tired.  empathy behavior body language
H		We searched the room and looked for  clues upset aware
		Our is always good in this class.  behavior upset body language
		Before I found out about his pet lizard, I wasn't of his love of reptiles.  empathy clue aware
Re	ead and complete	I felt a lot of for the characters in the book. I really cared about what happened to them.  empathy aware body language  paragraphs.
3	clue behavior	set be aware of empathy body language
1		that someone is happy. But sometimes le when they are because r real feelings.
2	their	now their feelings, but we should also – for example, the position of their head and
2	how they move the	
3		means understanding how other people feel. end to people if we try to understand the reasons .

## Writing Study

### $oldsymbol{\mathsf{A}}$ Join the two sentences to make one sentence. Use a comma and one of these conjunctions.

and but so

1 I like math puzzles. My sister hates them.

I like math puzzles, but my sister hates them.

- 2 Zeki is very musical. She has good social skills, too.
- 3 Filip can visualize cool new clothes. He finds fashion design easy.
- 4 I grow a lot of vegetables. I'm not interested in growing flowers.
- Rewrite the sentence so it has a semicolon.
  - Mima likes shaping wood into sculptures, but Kalisha prefers painting. Mima likes shaping wood into sculptures; Kalisha prefers painting.
  - 2 I'm not very athletic, so sports are hard for me.
  - 3 Logical intelligence is important in chess, and it's important in a lot of other board games, too.
  - 4 He is good at math, but he finds history difficult.
- Write a paragraph about the different types of intelligence your friends and family have and how they use them. Use commas and semicolons.



My dad has high emotional intelligence; I know he'll always listen if there's something that's worrying me. My sister isn't as good as Dad at listening to people's problems, but she has fantastic linguistic intelligence. She loves telling stories, and she writes very good poems.

## **Unit Review**

### Read and circle the correct option.

Friendships are important; they make a big <sup>1</sup>empathy / contribution / behavior to your <sup>2</sup>linguistic / multiple / emotional well-being. But if you move to a new school or area, you may need to make new friendships from <sup>3</sup>scratch / shape / engage. This will be a lot easier if you have good 4social skills / dance routines / body language.

Good social skills are also useful for teamwork. If people in the team disagree, you can use your emotional intelligence to solve the problems, so no one will be <sup>5</sup>handle / clue / upset. So always look for ways to develop your <sup>6</sup>ability / capable / athletic to communicate well with other people. It can give you a big <sup>7</sup>logic / calculation / advantage in life.

#### Match the categories to the examples.

- 1 clues •
- 2 body language •
- 3 athletic people •
- 4 linguistic skills •

- a runners and gymnasts
- **b** hugging and smiling
- c reading and speaking
- **d** a fingerprint and a hair on a coat

### Complete the sentences with the correct form of the verb.

	Present Perfect		Present Perfect Continuous	
1 learn	I English words.	hundreds of	II four years.	English for
<b>2</b> sleep	He the desert.	under the stars in	Hehe should wake up no	
3 not do	We the project yet.	enough work on	We the project this week.	_ enough work on
4 write	How many books	(she)?	(s	he) her book today?

### Think and Reflect: Unit 1

My understanding of intelligence

The most interesting thing that I learned

My goal for Unit 2



### When do animals use intelligence?

### Vocabulary 1

### Complete the sentences.

bury figure out hang yell sweep balance



The clothes will dry if you them on a clothesline.



2 I love to puzzles.



the We floor every day.



4 I had to to make him hear me.



5 It's easier to if you spread your arms wide.



At the beach, we sometimes Dad in the sand!

### Match the definitions to the words or phrases.

- 1 You might have a pile of these on your desk.
- 2 These are delicious when they're ripe.
- 3 This sometimes causes trouble for transportation.
- 4 This creates warmth.
- 5 You might see this on the end of a pole.
- 6 This is mischievous behavior.

- a a lot of snow
- **b** books
- c apples
- d a monkey taking food from your picnic
- e the sun
- f a flag

### 2

### Word Study and Grammar

### A Complete the sentences with their -ous adjective forms.

fury adventure fame mountain mystery nerve envy poison humor vary

1	Even <u>famous</u> actors who have appeared in a lot of movies feel			
	before they perform in a play.			
2	Switzerland is a very country, so it's a great place for			
	people who enjoy sports like climbing and skiing.			
3	He received a letter in the mail. It didn't say who it was from, but it told him			
	not to eat the apples on his tree because they were			
4	I feel of the lucky people who live in sunny places. We have			
	types of weather here, from gentle rain to snowstorms, but we don't often see the sun.			
5	I sent my grandma a card for her birthday, but sadly the joke on the card			
	upset her. She was about it!			

### Complete the sentences with the simple present or present continuous of the verbs in parentheses.

1	I	(read) an interesting book about owls at the moment.
2	Writers often	(tell) stories about intelligent owls.

- 3 In fact, owls \_\_\_\_\_ (have) a small brain for their body size.
- 4 My brother sometimes \_\_\_\_\_ (see) an owl in our yard at night.
- **5** I can't sleep right now because an owl \_\_\_\_\_ (make) a loud noise near my bedroom window.



### Correct the mistakes. Use the simple past or past continuous.

- 1 Last fall, a squirrel often <u>comes</u> into our yard to bury nuts.
- 2 One day, it <u>digging</u> a hole for a nut when a fox arrived.
- 3 I saw the fox while I were doing the dishes in the kitchen.
- 4 Suddenly, the fox <u>leap</u> at the squirrel.
- 5 The squirrel quickly <u>climbing</u> a tree.



	I I sa a su su su a l	h l n 4 h n		
•	Unscrami	bie the	sentences.	

- 1 been / for hours / The hawk / has / sitting / on the branch
- 2 I / been / the birds / feeding / this winter / have
- 3 has / finished / The TV show / about squirrels
- 4 have / never / I / a hummingbird / seen
- 5 of wildlife / been / taking photos / has / today / She

#### Read and circle the correct option.

- 1 Two hundred years ago, when plenty of gray squirrels were living / have lived in North America, only red squirrels lived in the forests of Europe.
- 2 In the 1800s, people started / are starting to bring gray squirrels to Europe.
- 3 Since the 1800s, the number of gray squirrels in Europe grows / has been growing.
- 4 Gray squirrels **eat** / **are eating** the same food as red squirrels, and they are better at getting the food.
- 5 In parts of Europe with a lot of gray squirrels today, red squirrels were disappearing / have disappeared.
- 6 At the moment, experts tried / are trying to stop the spread of gray squirrels in Europe to protect red squirrels.

### Complete the sentences with the correct form of fly.

- 1 Simple present: The bird \_\_\_\_\_\_ to Alaska every year.
- 2 Present continuous: Look! The bird \_\_\_\_\_\_!
- 3 Simple past: Last year, the bird \_\_\_\_\_\_ to Alaska.
- 4 Past continuous: The bird \_\_\_\_\_ when I saw it.
- 5 Present perfect: The bird \_\_\_\_\_\_ to Alaska five times.
- 6 Present perfect continuous: The bird \_\_\_\_\_\_ for weeks.



What animals have you seen this year? What signs of intelligence did they show?





## 2 Reading

A Read the wildlife story. What was the problem and how did they solve it?

# Brainy and the Trash

Under a streetlight, a small animal was moving. It had a black and white face and a stripy tail. "It's a raccoon!" said Jaden quietly to Emma.



Every night, they found their family's trash can on its side, and there was trash everywhere, but no one knew why. The two children were hiding in the dark to solve the mystery. And now, it seemed they had their answer! Although small, the raccoon was very strong. It pushed the big can onto its side with a loud crash, then it leaped into the can to find something to eat.

"Hey! Go away!" yelled the children. The raccoon ran off into the night.

The next day, Emma and Jaden put a big rock in the bottom of the trash can. "It'll be too heavy for the raccoon now!" said Jaden.

That night, the children hid again. When the mischievous raccoon arrived, it couldn't push the trash can over. We've solved the problem! thought the children happily.

But the raccoon had other ideas. It found a long wooden pole nearby. What's it doing? wondered the children.

The raccoon tried again and again to

balance the pole against the trash can.

On its seventh try, it succeeded, and it climbed up the pole. Then it opened the trash can with its little fingers, and climbed onto the pile of trash inside.

This time, Emma and Jaden were too fascinated to yell at the raccoon.

"It's so intelligent!" smiled Jaden.

"We should call it Brainy!" said Emma.

The next day, Mom put some rope around the trash can to keep the lid down. That night, Brainy's little fingers played with the knot in the rope for about ten minutes. Then the rope fell to the ground, and the raccoon climbed into the can.



"Brainy is so smart!" laughed Jaden.

The next morning, Mom said, "Maybe we've been trying something impossible. Brainy's too intelligent for this old trash can! I'm going to buy a special new can that raccoons can't open."

Two nights later, the children watched as Brainy tried, and failed, to figure out a way into the new can. Then the raccoon moved on up the street to another house. "Goodbye, Brainy!" said the children. "And good luck!"



Underline these words in the text.

mischievous pole figure out balance yell

- Answer the questions.
  - 1 Why are the children hiding at the beginning of the story?

2 Why is Brainy interested in the trash?

3 Why do the children put a stone in the trash can?

- 4 How does Brainy use the wooden pole?
- 5 What does Mom use to try to stop Brainy getting into the old trash can?
- 6 Why does Brainy go to another house at the end of the story?
- D On Visualize these parts of the wildlife story. Describe the pictures that you see in your mind.

Brainy pushing the old trash can onto its side

- Brainy carrying the wooden pole
- Brainy trying to open the new trash can



What mischievous animals do you know? How are they mischievous?

#### Match to make sentences.

- 1 Octopus skin usually has a smooth, soft ... •
- 2 The fish live in a big, glass ... •
- 3 I didn't need any help. I did it ...
- 4 The fox found a nice place to build its ...
- **5** The crab is inside a large container. It can't ...
- 6 The raccoon used a stick to get to the food. It was very ...

- a escape.
- **b** independently.
- c tank.
- d resourceful.
- e texture.
- f den.

### Read and complete the paragraph.

located gap tank escape resourceful



We tested the intelligence of different species of fish. To do this, we put them in a small container <sup>1</sup> inside a big <sup>2</sup> \_\_\_\_\_ of water. There was a small and a difficult route to <sup>4</sup> \_\_\_\_\_ from the container. We recorded how long the different fish took to figure out the route. The difference between the speed of the fastest and slowest fish was bigger each time they did the challenge. This was probably because the most intelligent and <sup>5</sup> \_\_\_\_\_ fish remembered the route from before.

### A Check (✓) the correct option.



1	The kitten was really			
	fake	fluffu		



3 These plants are .... Their leaves are plastic.

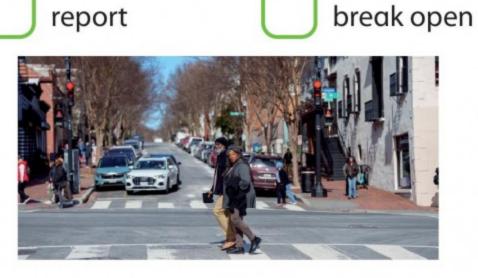




My friend was waiting for me at the school ....

pedestrians	entranc

2 I'm trying to ... this nut. report



4 The ... crossed the street at the traffic light.





6 I'm happy to ... that our local hedgehog has had babies!

report	break oper

B Complete the paragraphs.

entrance fluffy fake break open pedestrians report 1 The lid of the tank is open, and the lizard is gone! Did someone the tank? I should \_\_\_\_\_ this to the manager of the animal park! 2 My friend has a new pet rabbit with \_\_\_\_\_\_ black fur. I wanted to walk to her house and play with it, but my mom said no. There's no sidewalk on her road, so it's too dangerous 3 Here's a picture of my brother at the \_\_\_\_\_\_ to the bat cave. His smile is so ! He's really bad at smiling naturally for a picture!