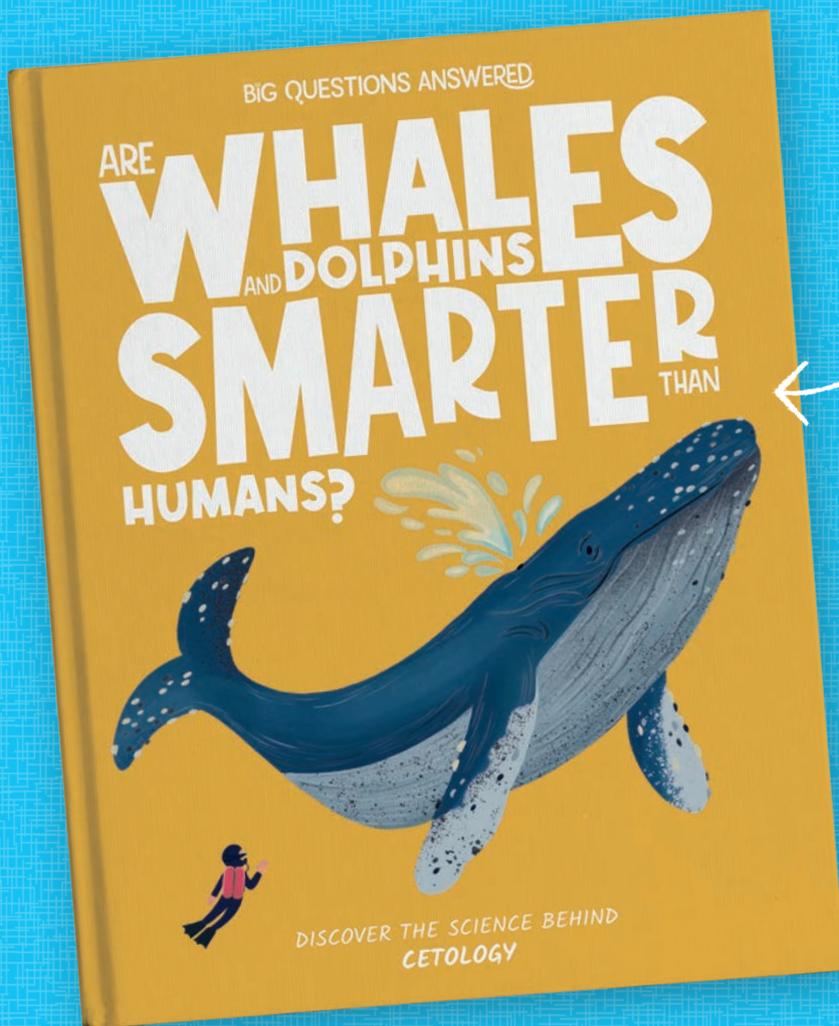


THE BIG QUESTIONS ANSWERED

YOUNG CETOLOGISTS'

ACTIVITY PACK



Full of fun and exciting activities to accompany this book!



CONTENTS:

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Exploring the Depths: Creative Drawing	4
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Picture Credits:

(t = top, b = bottom, m = middle, l = left, r = right)

Shutterstock: Svitlana Tytska 9(whales); Tany Gust 10m.

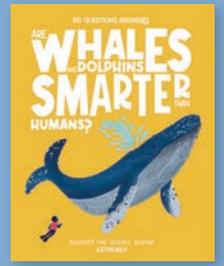
Every effort has been made to trace the copyright holders, and we apologize in advance for any unintentional omissions. We would be pleased to insert the appropriate acknowledgments in any subsequent edition.



ARE WHALES AND DOLPHINS SMARTER THAN HUMANS?

For reference to the Teachers' & Parents' Resources, this goes with "Underwater Language: Scene 1".

www.thebigquestionsanswered.com



DOLPHIN DISCOVERY

Imagine you are working as a scientist, and you have just discovered that dolphins are talking to each other underwater! Use the space below to write a diary entry about this amazing discovery, and what you think the dolphins might be talking about.

A large, light-orange, irregularly shaped area with a white border, containing ten horizontal lines for writing a diary entry.



Feeling stuck? Try some of these...

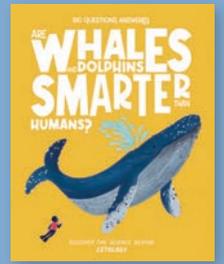
- **Describe the place where you found the discovery.**
Where were you? What was around you at the time?
- **Describe what the noise sounded like.**
Think of some descriptive words for it.
- **Describe how you would be feeling.**
Would you be excited, nervous, or something else?



ARE WHALES AND DOLPHINS SMARTER THAN HUMANS?

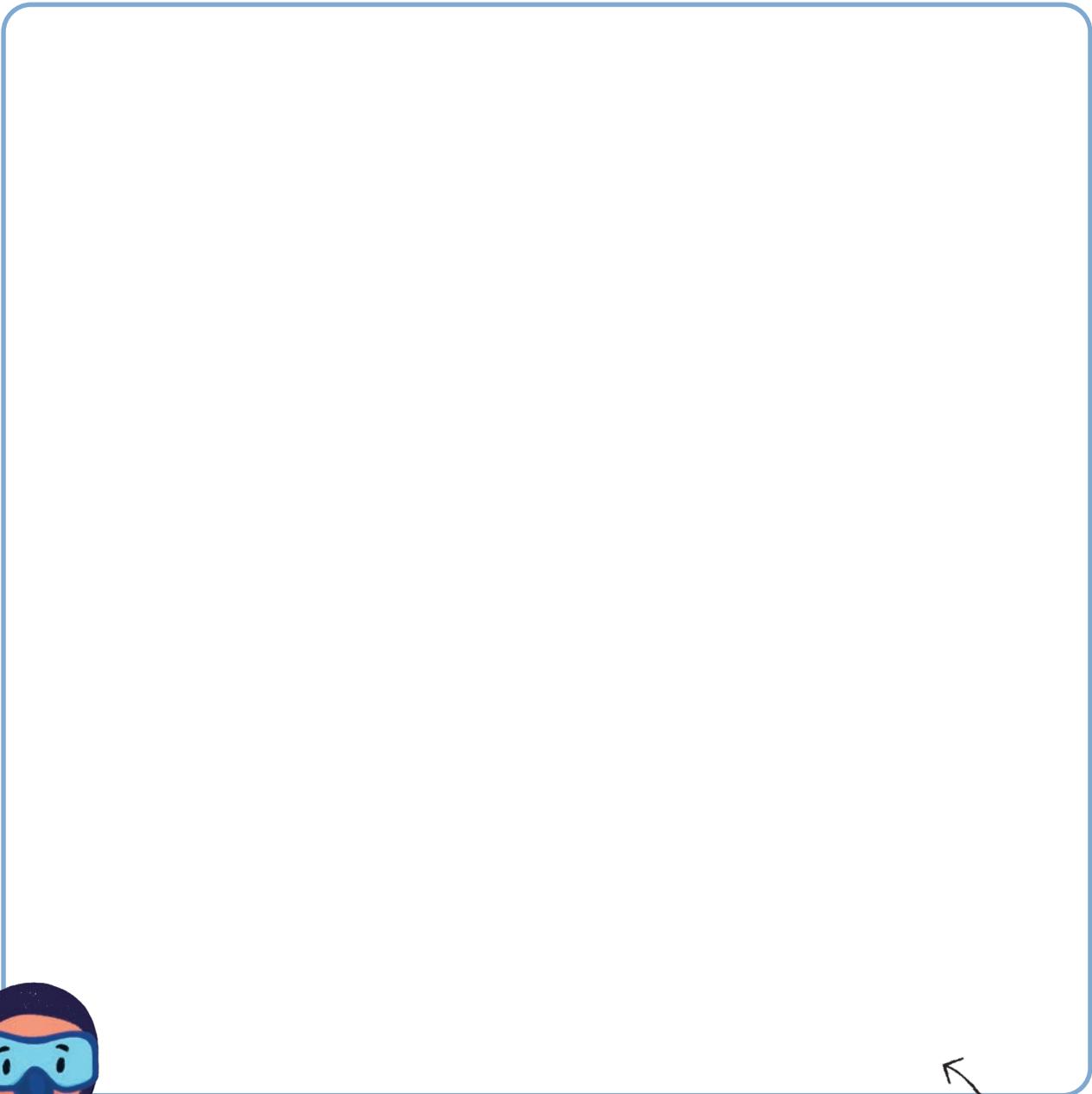
For reference to the Teachers' & Parents' Resources, this goes with "Cetologists Start Their Research: Scene 2".

www.thebigquestionsanswered.com



EXPLORING THE DEPTHS

Get creative and draw how you might look next to these huge marine mammals in the ocean. Draw as many whales, dolphins, and porpoises as you can, and don't forget to include yourself in your diving gear!



Draw your scene in here!

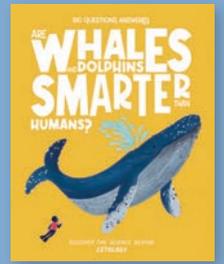




ARE WHALES AND DOLPHINS SMARTER THAN HUMANS?

For reference to the Teachers' & Parents' Resources, this goes with "Impressive Problem-Solving: Scene 3".

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FIN-TASTIC DOLPHIN TACTICS

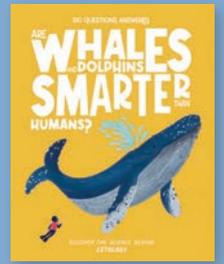
Can you use what you've learned about whales and dolphins so far to work out which of the sentences are true and which are false?

	SENTENCE	TRUE	FALSE
1	Whales and dolphins are excellent problem-solvers.		
2	Some dolphins use their tails to make rings of bubbles.		
3	The rings of bubbles dolphins make are called bubble nets.		
4	Dolphins make rings of bubbles to show off to other dolphins.		
5	Dolphins make rings of bubbles to trap their prey in one place.		
6	Whales are the only animal that creates rings of bubbles.		

ARE WHALES AND DOLPHINS SMARTER THAN HUMANS?

For reference to the Teachers' & Parents' Resources, this goes with "Using Tools: Scene 4".

www.thebigquestionsanswered.com



DOLPHINS DIY

These clever dolphins are having a whale of a time using their sea tools! Can you spot the **10** differences between the two scenes? Circle them when you spot them.

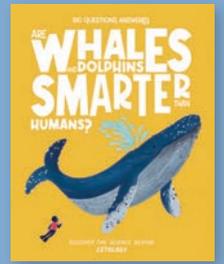




ARE WHALES AND DOLPHINS SMARTER THAN HUMANS?

For reference to the Teachers' & Parents' Resources, this goes with "Can You Remember When?: Scene 6".

www.thebigquestionsanswered.com



WONDERFUL WHALE FACTS

Choose a whale – any you like – and see what amazing things you can find out about it!
Draw your chosen whale and fill in all of the information below.



Draw your whale in here!

Type of whale:

This whale lives up to:

This whale has cool features, such as:

.....

A fun fact about this whale is:

.....

.....



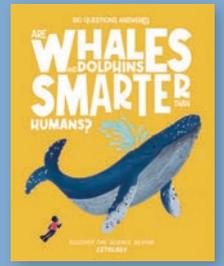
Why not print this sheet off multiple times to create a cetology booklet full of different whales!



ARE WHALES AND DOLPHINS SMARTER THAN HUMANS?

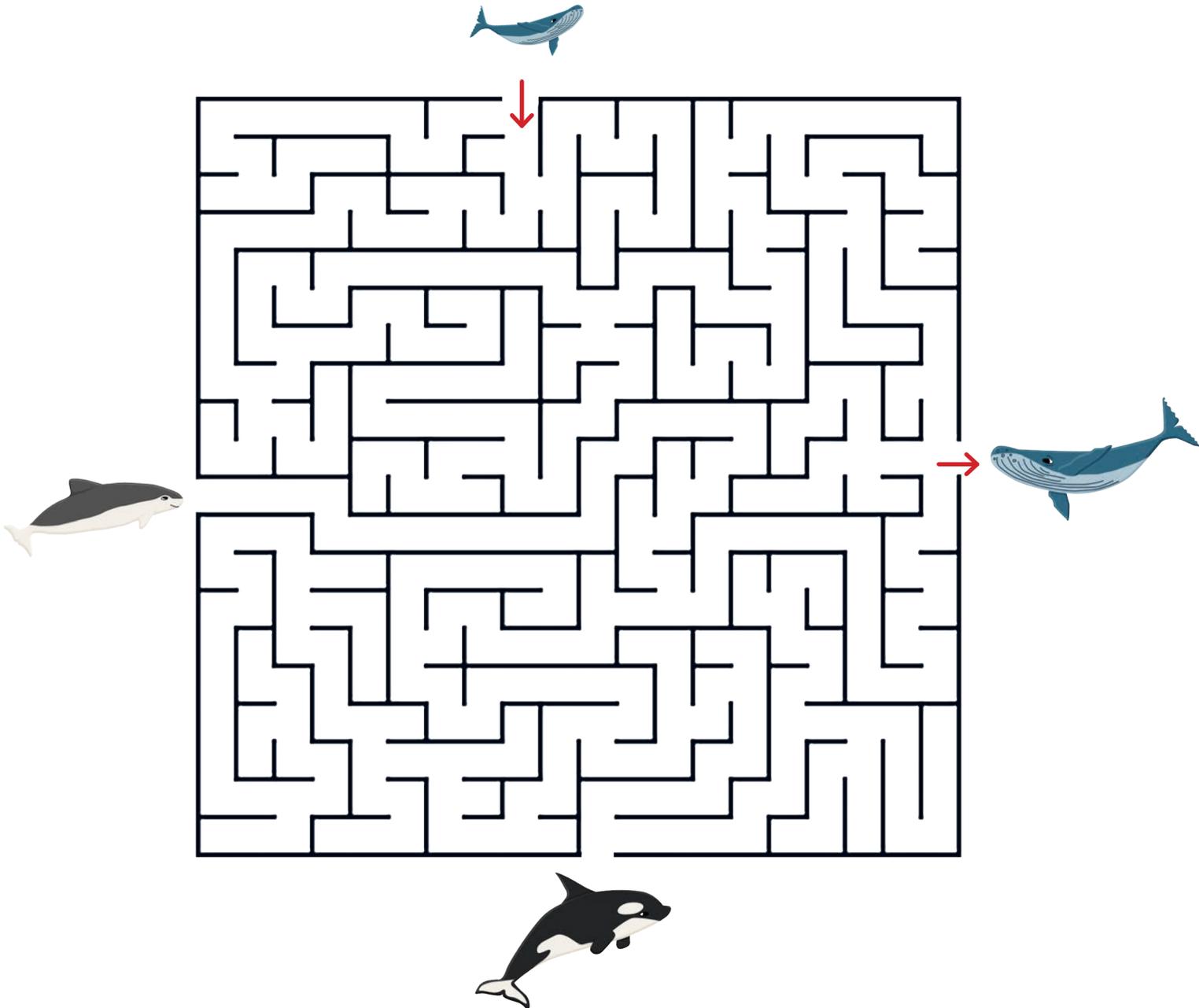
For reference to the Teachers' & Parents' Resources, this goes with "Family Comes First: Scene 7".

www.thebigquestionsanswered.com



LOST AT SEA

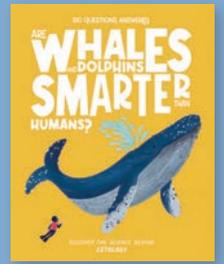
This baby whale has lost its way out at sea. Can you help it find its way back to its parent?



ARE WHALES AND DOLPHINS SMARTER THAN HUMANS?

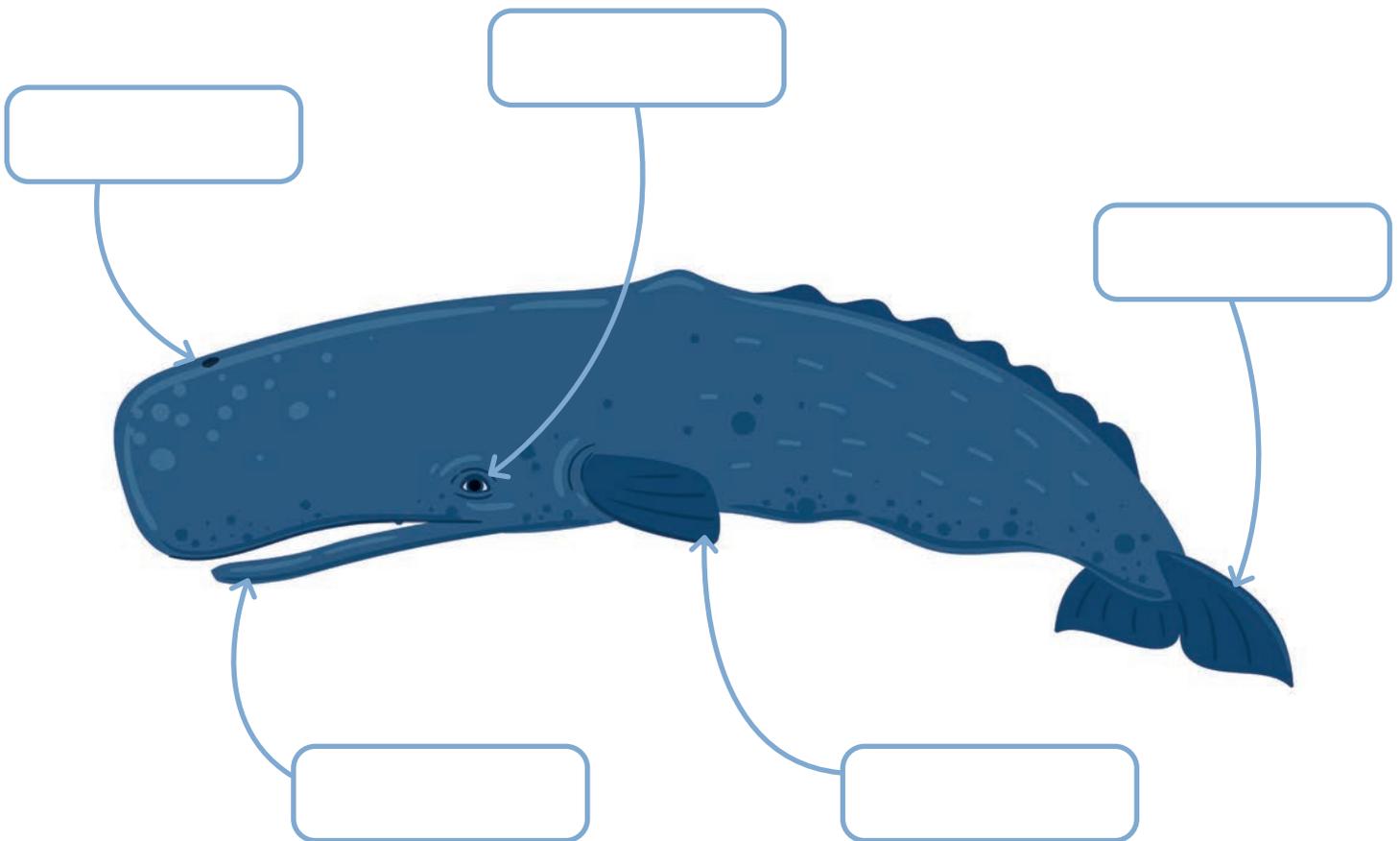
For reference to the Teachers' & Parents' Resources, this goes with "Big Brains: Scene 8".

www.thebigquestionsanswered.com



WHALE ANATOMY

Whales come in all shapes and sizes. Can you fill in the boxes to label this whale's body parts? Each answer can only be used once.



BLOWHOLE

FLIPPER

MOUTH

EYE

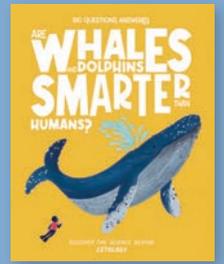
TAIL FLUKE



ARE WHALES AND DOLPHINS SMARTER THAN HUMANS?

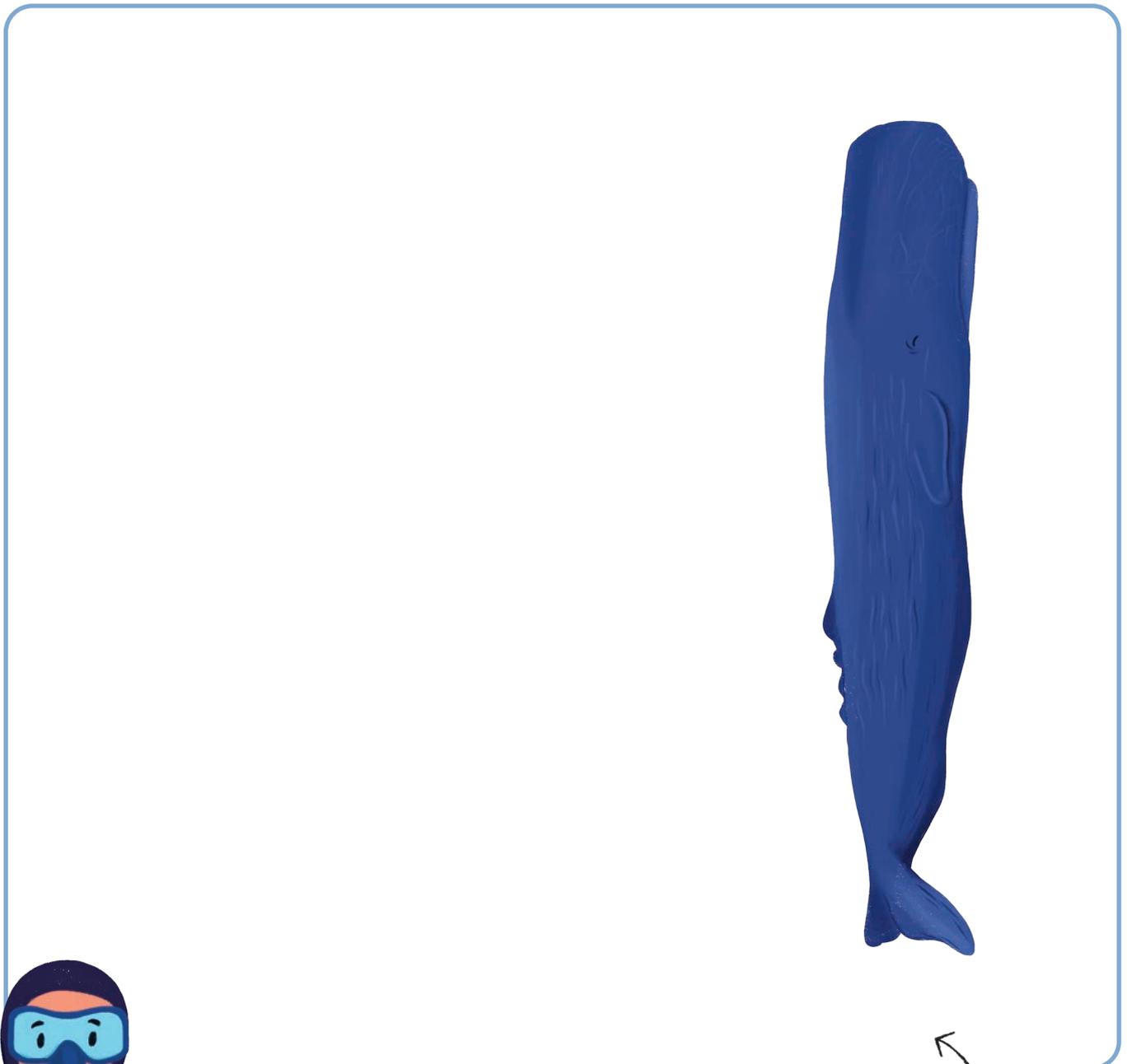
For reference to the Teachers' & Parents' Resources, this goes with "Sleeping Experts: Scene 9".

www.thebigquestionsanswered.com



BEDTIME IN THE BLUE

This sperm whale is sleeping on its own out at sea. Get creative and draw some whale, dolphin, and porpoise friends to keep it company!



Draw your scene in here!

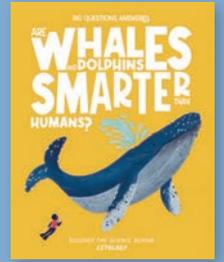




ARE WHALES AND DOLPHINS SMARTER THAN HUMANS?

For reference to the Teachers' & Parents' Resources, this goes with "Curious Creatures: Scene 10".

www.thebigquestionsanswered.com



MAKING WHALE FRIENDS

Whales and dolphins really are amazing creatures. As we've seen in the main book, whales and dolphins are very clever. Reflect on the topics covered in the book and consider what you think about each aspect by answering the questions below.

If you had the chance, what would you ask a dolphin or whale?

.....
.....
.....

What do you think dolphins and whales sound like when they speak to each other?

.....
.....
.....

What 3 things would you take with you to explore the oceans and visit these amazing creatures?

.....
.....
.....

Have you ever seen a dolphin or whale in real life? If so, what was it like? If you haven't, would you like to? What whale or dolphin would you like to see the most?

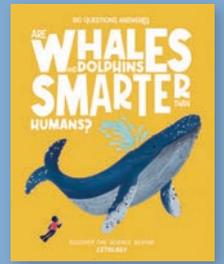
.....
.....
.....



ARE WHALES AND DOLPHINS SMARTER THAN HUMANS?

For reference to the Teachers' & Parents' Resources, this goes with "Impact on Our Planet: Scene II".

www.thebigquestionsanswered.com



WHALES HELPING THE WORLD

Can you use the words below to fill in the blanks and uncover some whale-y great facts? Each answer can only be used once.

oxygen

carbon dioxide

nutrients

whale pump

phytoplankton

climate change

healthy

1. Whales play a very important role in keeping our world _____.
2. For example, whales play a crucial role in helping to tackle _____.
3. By eating _____, whales absorb _____ from the ocean. This produces 50% of the _____ we breathe.
4. When whales poop, feed, and dive from the water's surface to the depths of the ocean, they are taking part in a _____.
5. This allows essential _____ to be spread across the ocean, helping other animals to thrive.



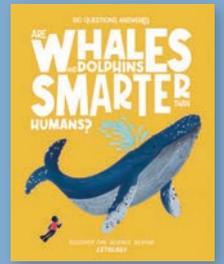
What's your favorite whale or dolphin fact?



ARE WHALES AND DOLPHINS SMARTER THAN HUMANS?

For reference to the Teachers' & Parents' Resources, this goes with "Terrific Teamwork: Scene 12".

www.thebigquestionsanswered.com



WONDER WHALE

Wonder Whale is a superhero who rescues people who are in trouble out at sea!
Draw what you think Wonder Whale looks like below.



Feeling stuck? Try some of these hints...

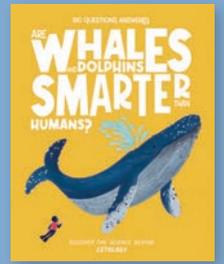
- What is Wonder Whale wearing?
- Is it wearing a cape?
- What color is Wonder Whale?



ARE WHALES AND DOLPHINS SMARTER THAN HUMANS?

For reference to the Teachers' & Parents' Resources, this goes with "Terrific Teamwork: Scene 12".

www.thebigquestionsanswered.com



WONDER WHALE SAVES THE DAY

Below are some sentences.

Draw a picture to match each sentence and create your own comic.



Oh no! A pod of dolphins is being chased by sharks! Who will save them?



Don't worry! Wonder Whale is here to scare the sharks away!



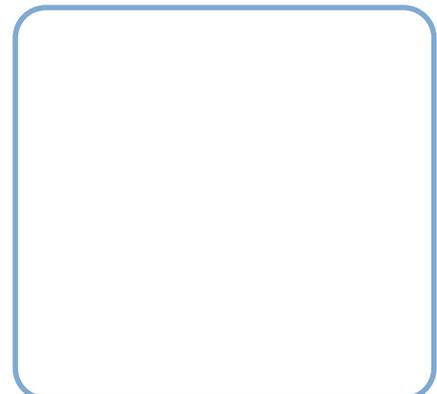
Oh dear! A baby whale is lost out at sea. Where has its family gone?



Look! Here comes Wonder Whale to lead the baby back home.



Watch out! There are some porpoises trapped behind some rocks.



Well done, Wonder Whale, for saving the day!

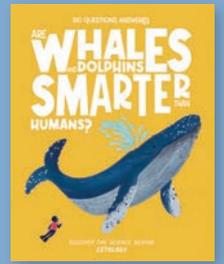


Try writing your own comic strip and drawing pictures for it on a blank piece of paper!

ARE WHALES AND DOLPHINS SMARTER THAN HUMANS?

For reference to the Teachers' & Parents' Resources, this goes with "All Sorts of Cetaceans: Scene 13".

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WHALE-Y GREAT WORDS

Find and circle the words listed below, in the grid. Words can be found in any direction (including diagonally) and can overlap each other.

B	Z	M	X	A	P	S	Y	P	S	T	N	V	G	T	I	E	I	K	V
E	T	F	R	W	J	H	L	A	A	C	N	F	S	D	S	L	A	L	S
A	Z	Z	J	C	U	I	Y	X	Q	E	L	I	A	I	G	V	U	X	D
P	B	Y	Q	Y	U	I	T	X	K	T	G	O	O	M	X	V	E	C	F
J	M	W	M	D	R	Z	Q	M	D	O	U	P	A	S	H	W	B	N	G
H	P	N	H	T	S	Z	W	W	L	L	R	T	H	G	K	H	E	M	Q
R	F	X	L	A	X	D	Z	O	R	O	E	M	I	X	Y	L	C	M	A
Y	E	A	L	K	L	S	T	V	P	G	N	J	U	Y	O	I	U	D	U
Y	S	P	E	C	I	E	S	E	S	Y	Q	J	H	H	D	N	A	Z	B
N	K	I	I	Q	C	B	W	N	W	H	W	U	W	M	C	G	K	H	F
N	O	P	E	G	B	C	A	J	O	I	J	O	C	C	H	S	G	A	A
J	N	G	I	T	Q	E	O	S	J	T	L	H	F	K	E	V	G	C	K
B	T	P	N	Q	C	E	E	L	M	B	Y	R	M	S	B	G	G	G	R
D	T	K	K	A	K	H	D	X	T	D	U	A	K	I	K	T	I	C	X
L	Y	O	T	L	H	P	I	Q	I	A	O	U	Y	Y	K	P	L	Q	A
A	Q	E	N	I	R	O	Z	Y	V	I	I	L	C	T	H	H	I	P	M
C	C	I	M	X	N	L	M	Q	O	R	X	L	P	I	N	Y	D	D	T
U	F	I	H	H	H	N	B	T	D	M	J	H	D	H	I	E	B	F	B
O	E	I	T	A	A	J	Q	F	C	N	R	U	V	E	I	V	I	T	G
C	P	X	A	B	Y	W	K	B	Y	I	B	Q	N	N	J	N	Y	Y	L

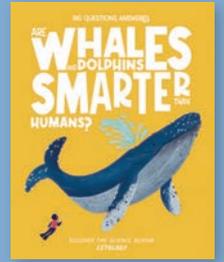
CETOLOGIST	PORPOISE	FIN
CETOLOGY	SPECIES	BLOWHOLE
WHALE	CETACEANS	TAIL
DOLPHIN		



ARE WHALES AND DOLPHINS SMARTER THAN HUMANS?

For reference to the Teachers' & Parents' Resources, this goes with "Post-Reading Questions".

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WRITE YOUR OWN CETOLOGY STORY

Can you write a story of your own about cetology, making sure to include the 3 key words below?

WHALE

DOLPHIN

CETOLOGIST

A large, light-orange, torn-edge rectangular area containing 15 horizontal lines for writing a story.

MORE FUN CETOLOGY ACTIVITIES

COLORING SHEETS & MORE!

The following activities aren't based on any specific scenes in the book. They can be used on their own or alongside the book as extra activities.

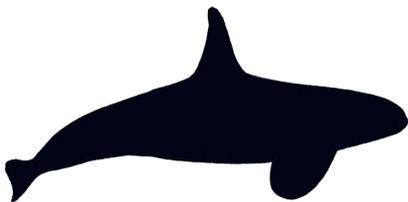
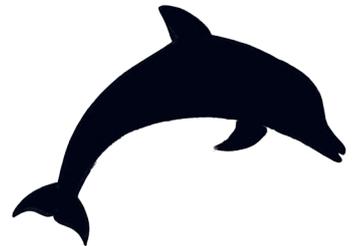
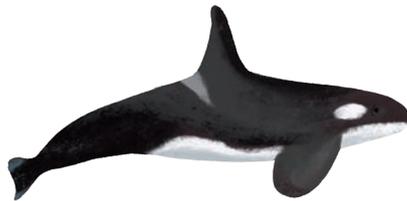
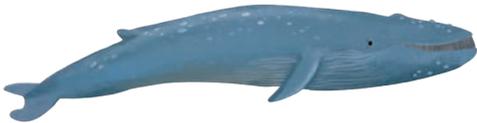
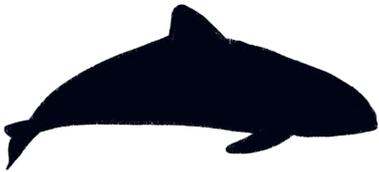
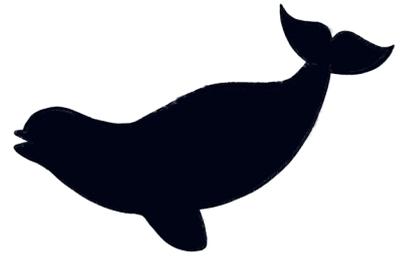
FIND THE SCIENTIST

There are lots of different scientists below. Can you find the cetologist?
Circle them when you find them – there's only one!



MATCH THE SHAPE

Can you match each shadow to the correct picture? Draw a line to connect them.



SIMPLE SUMS

Below are 3 objects which represent different numbers.

Work out the sum based on what each object represents and write your answers in the boxes.



= 1



= 3



= 6

 +  -  -  =

 +  -  +  =

 +  +  +  +  =

 +  -  +  =



COLOR ME IN!

This coloring sheet is based on scene 2:
Cetologists Start Their Research.



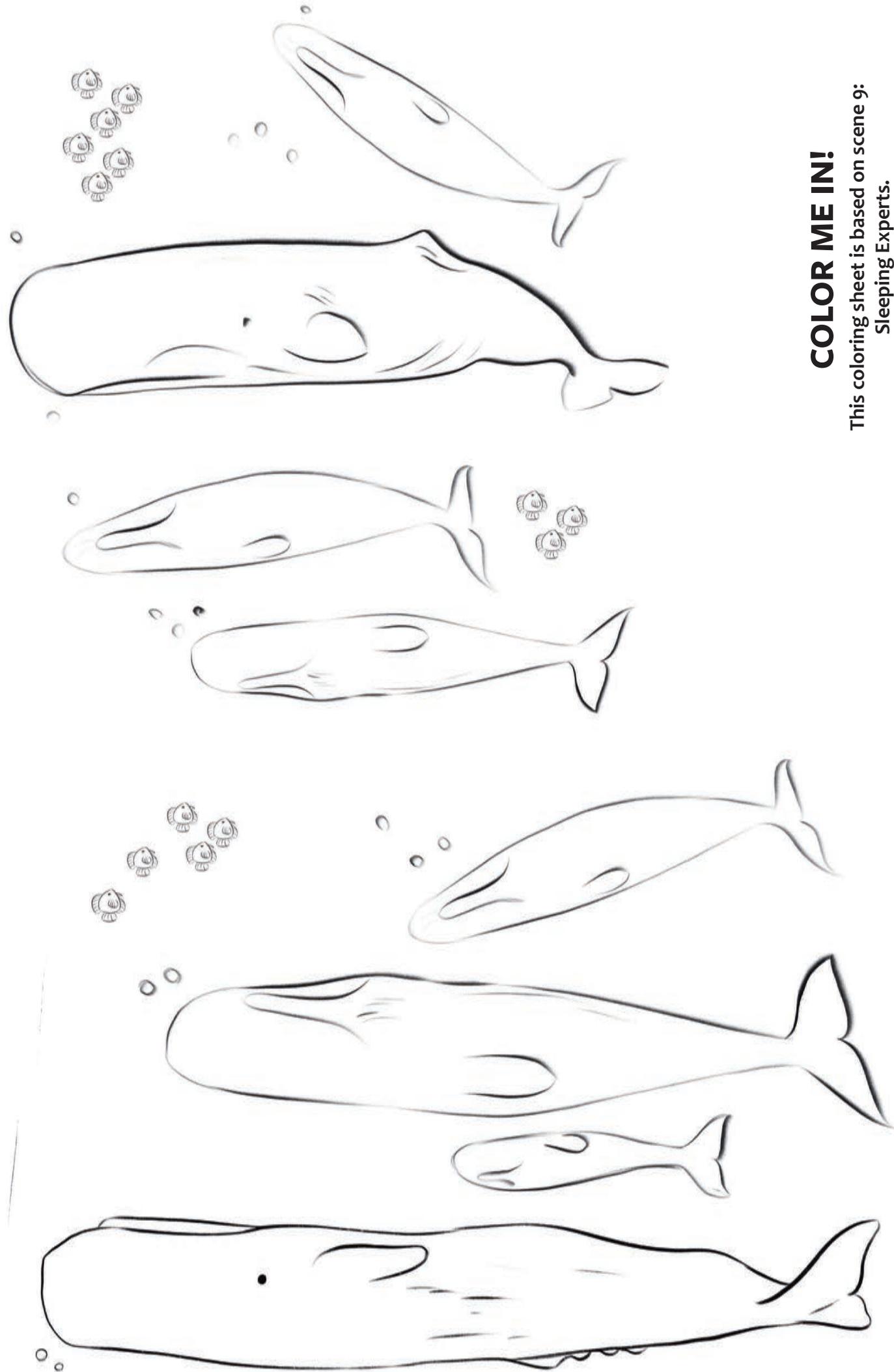
COLOR ME IN!

This coloring sheet is based on scene 6: Can You Remember When?

COLOR ME IN!

This coloring sheet is based on scene 8: Big Brains.



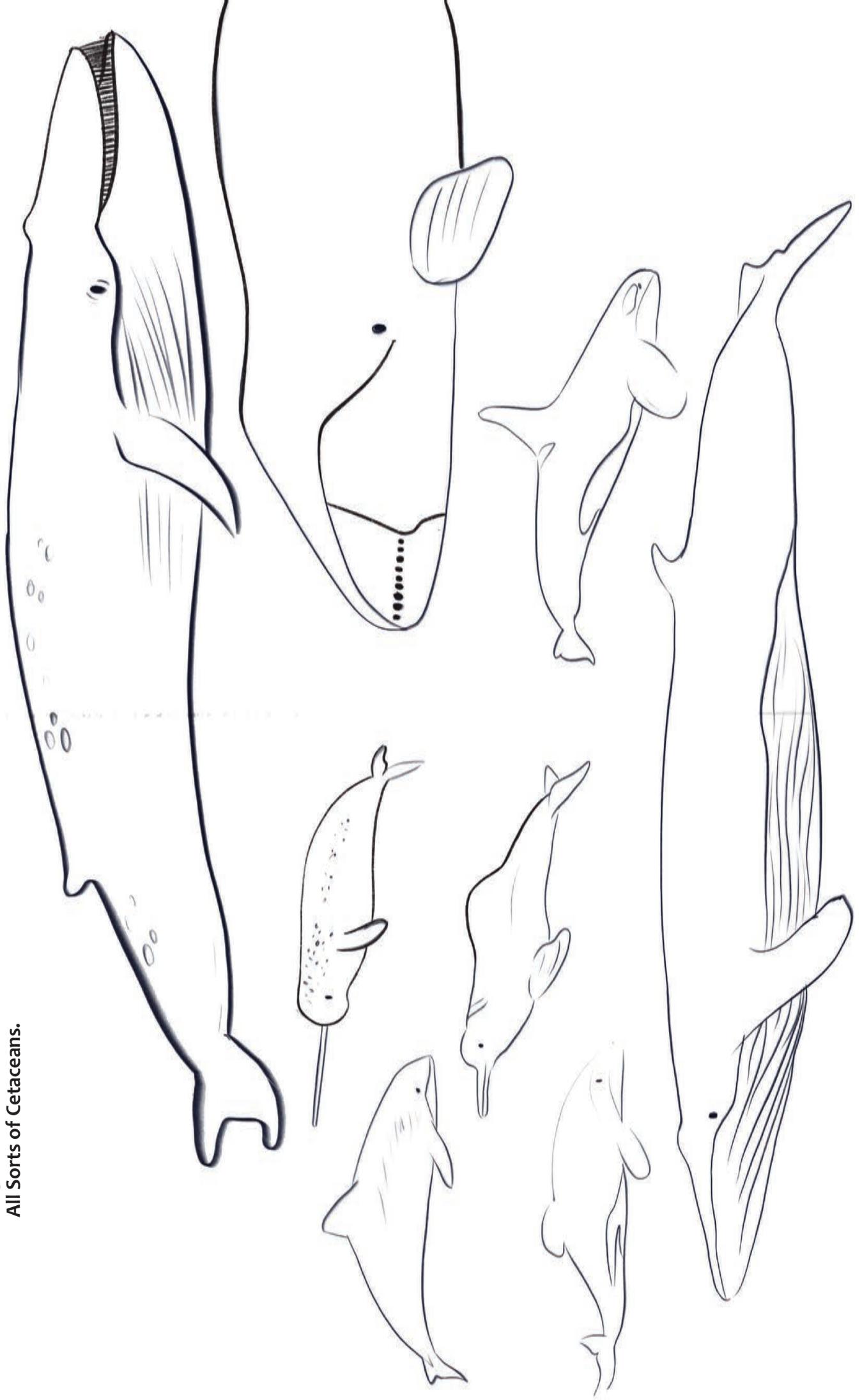


COLOR ME IN!

This coloring sheet is based on scene 9:
Sleeping Experts.

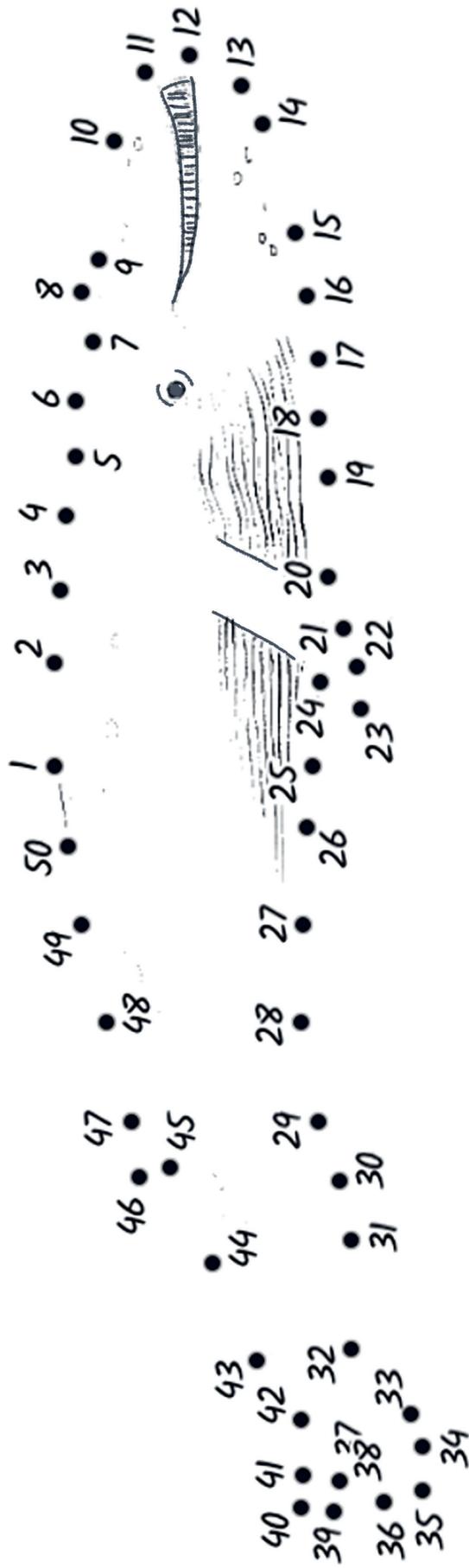
COLOR ME IN!

This coloring sheet is based on scene 13:
All Sorts of Cetaceans.



DOT-TO-DOT

Starting from 1, draw a line connecting the numbers to create a picture. Why not color it in afterward?



DOT-TO-DOT

Starting from 1, draw a line connecting the numbers to create a picture. Why not color it in afterward?



YOUNG CETOLOGISTS' ACTIVITY ANSWERS

Find the answers to the activities on the following pages.

ACTIVITY ANSWERS

Check your answers against the correct answers below!

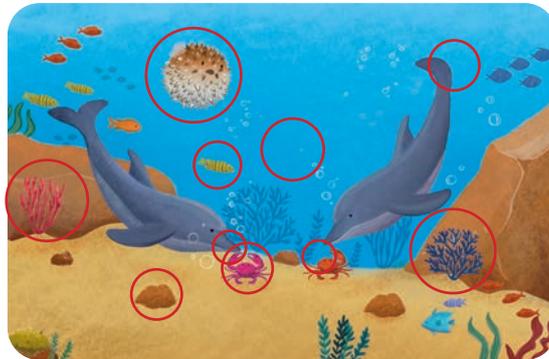
FIN-TASTIC DOLPHIN TACTICS ANSWERS

The answers below are for the “true or false?” activity on page 5.

	SENTENCE	TRUE	FALSE
1	Whales and dolphins are excellent problem-solvers.	TRUE	
2	Some dolphins use their tails to make rings of bubbles.		FALSE
3	The rings of bubbles dolphins make are called bubble nets.	TRUE	
4	Dolphins make rings of bubbles to impress other dolphins.		FALSE
5	Dolphins make rings of bubbles to trap their prey in one place.	TRUE	
6	Whales are the only animal that creates rings of bubbles.		FALSE

DOLPHIN DIY ANSWERS

The answers below are for the “spot the difference” activity on page 6.



DOLPHIN CHATTER ANSWERS

The answers below are for the “decoding challenge” activity on page 7.



H E L L O



U N D E R W A T E R



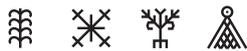
H U M A N ,



W O U L D



Y O U



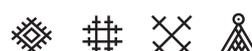
L I K E



T O



C A T C H



S O M E



F I S H



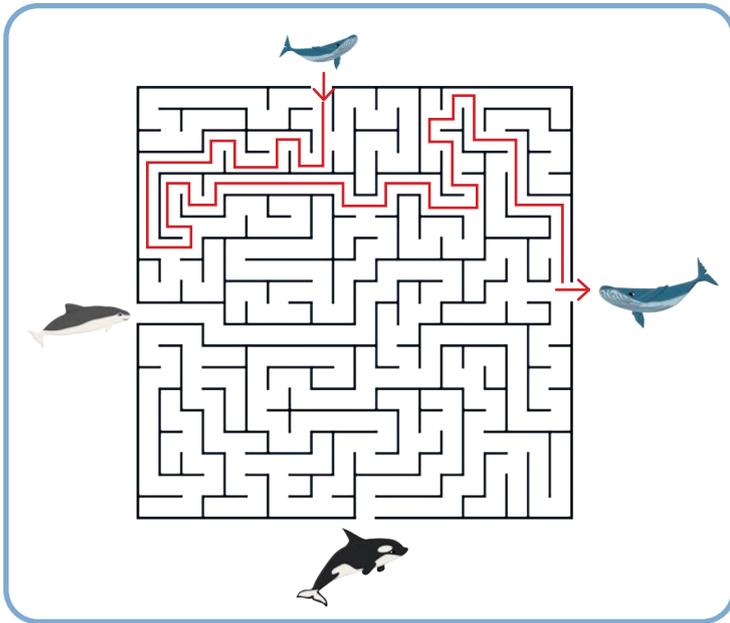
W I T H



M E ?

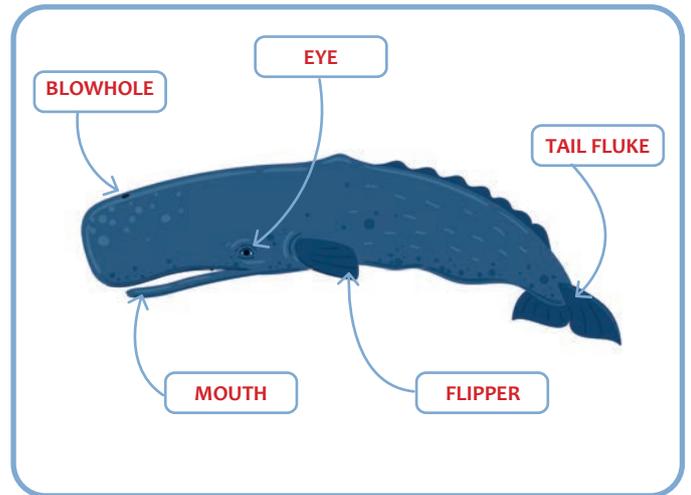
LOST AT SEA ANSWERS

The answers below are for the “maze” activity on page 9.



WHALE ANATOMY ANSWERS

The answers below are for the “label the part” activity on page 10.



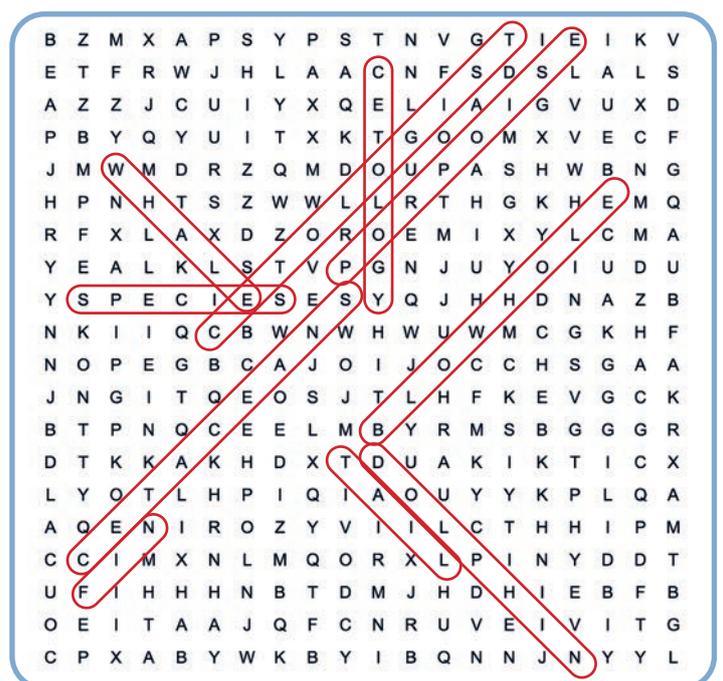
WHALES HELPING THE WORLD ANSWERS

The answers below are for the “fill in the blanks” activity on page 13.

- Whales play a very important role in keeping our world healthy.
- For example, whales play a crucial role in helping to combat climate change.
- By eating phytoplankton, whales absorb carbon dioxide from the ocean. This produces 50% of the oxygen we breathe.
- When whales poop, feed, and dive from the water’s surface to the depths of the ocean, they are taking part in a whale pump.
- This allows essential nutrients to be spread across the ocean, helping other animals to thrive.

WHALE-Y GREAT WORDS ANSWERS

The answers below are for the “word search” activity on page 16.



EXTRA ACTIVITY ANSWERS

Check your answers against the correct answers below!

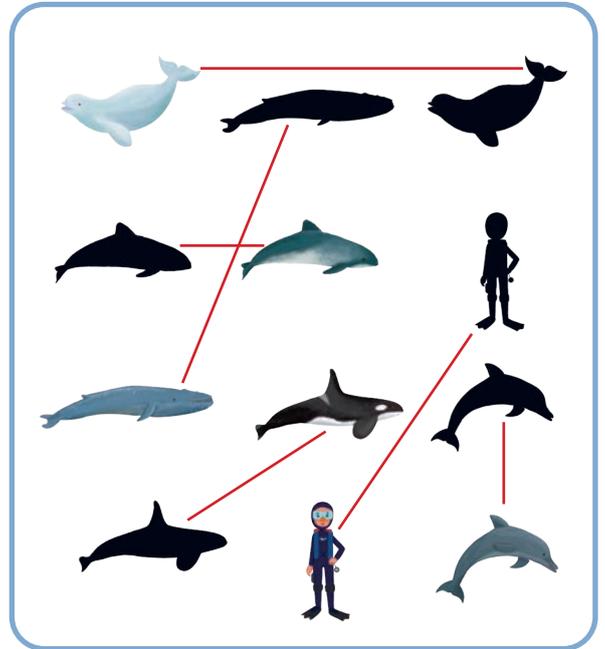
FIND THE SCIENTIST

The answers below are for the activity on page 19.



MATCH THE SHAPE

The answers below are for the activity on page 20.



SIMPLE SUMS

The answers below are for the activity on page 21.

$$\begin{array}{l}
 \text{White Whale} + \text{White Whale} - \text{Scientist} - \text{Scientist} = \boxed{10} \\
 \text{White Whale} + \text{Scientist} - \text{Grey Dolphin} + \text{Scientist} = \boxed{5} \\
 \text{Scientist} + \text{Scientist} + \text{Scientist} + \text{Scientist} + \text{Grey Dolphin} = \boxed{7} \\
 \text{Grey Dolphin} + \text{White Whale} - \text{Scientist} + \text{Grey Dolphin} = \boxed{11}
 \end{array}$$