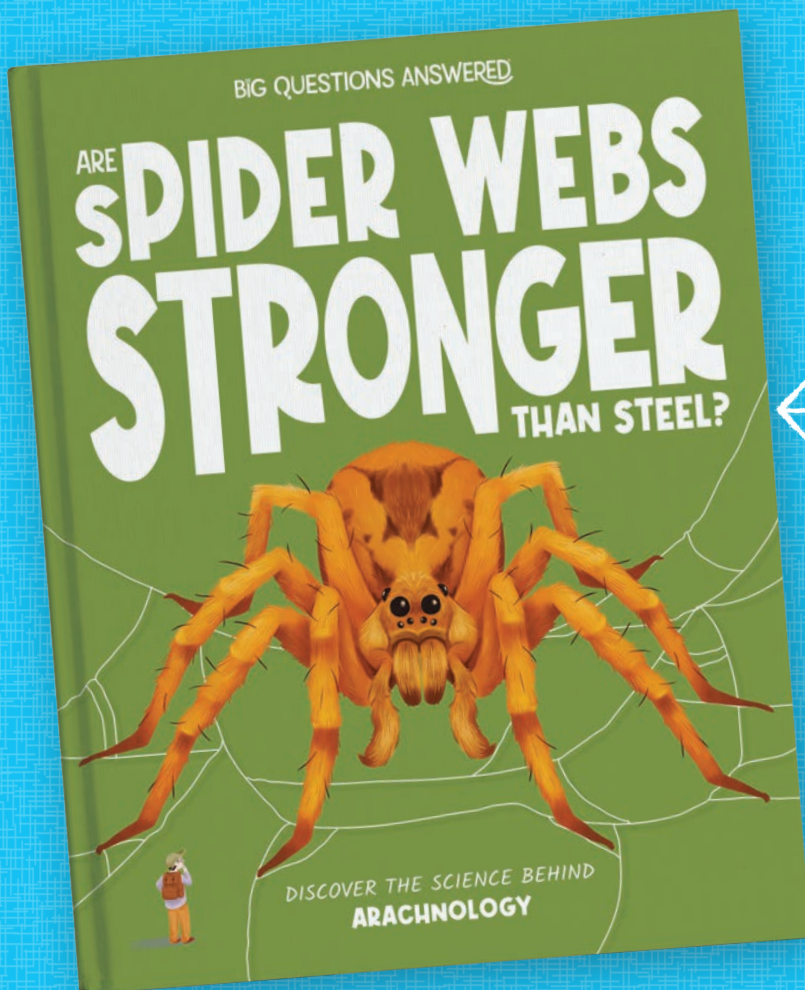


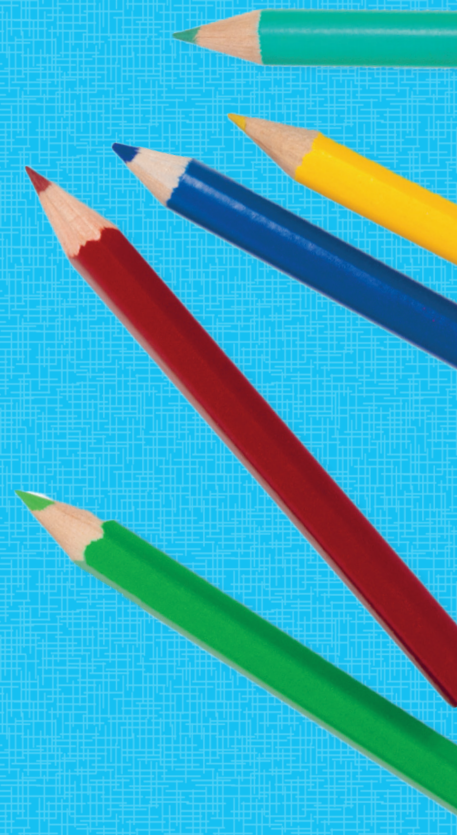
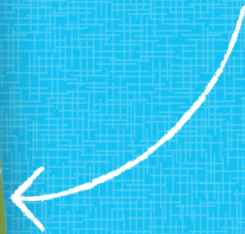
THE BIG QUESTIONS ANSWERED

YOUNG ARACHNOLOGISTS'

ACTIVITY PACK



Full of fun and exciting activities to accompany this book!



CONTENTS:

Time for Dinner: Line Maze	3
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Picture Credits:
(t = top, b = bottom, m = middle, l = left, r = right)

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 SCHOLASTIC

ARE SPIDER WEBS STRONGER THAN STEEL?

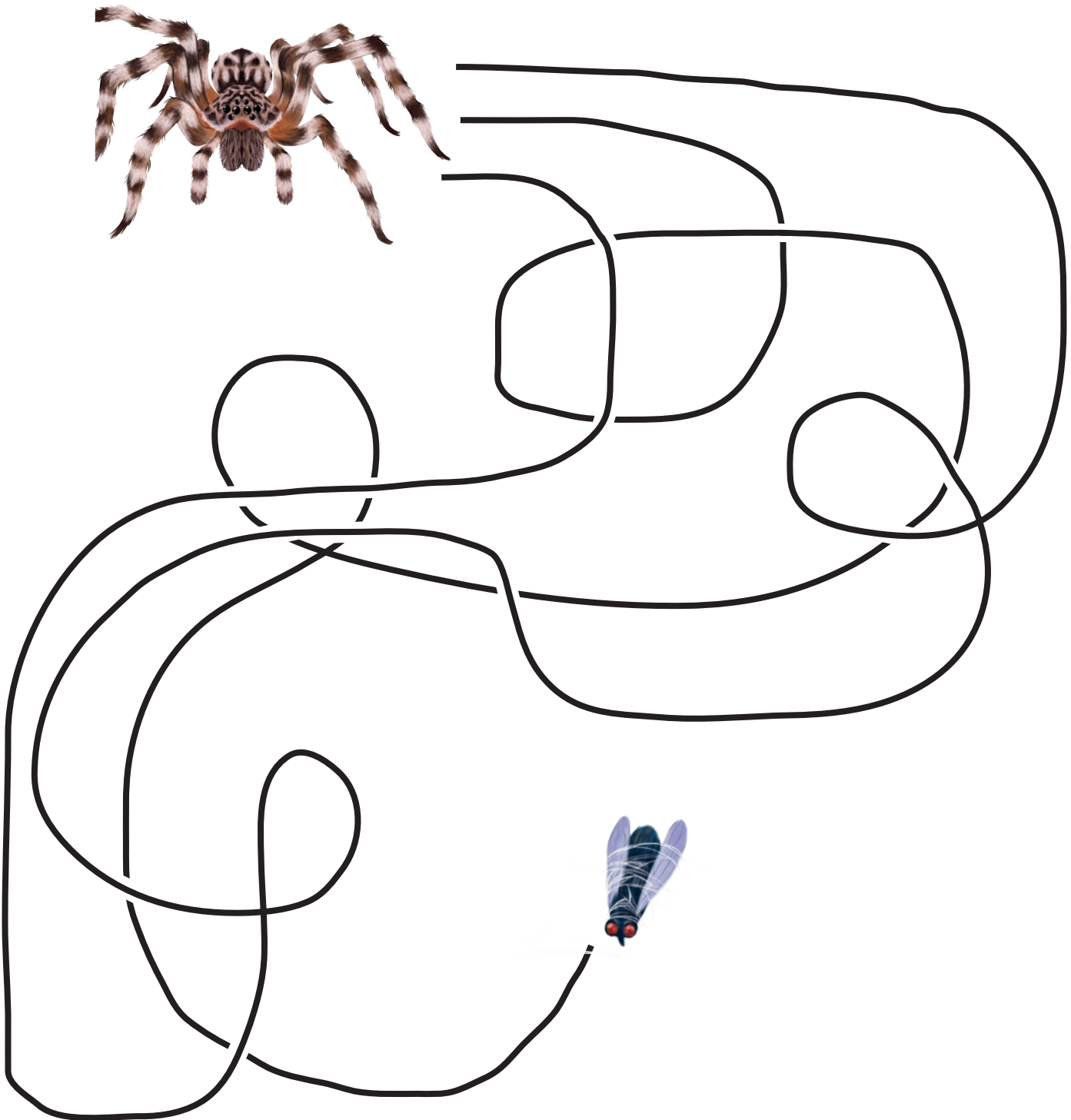
For reference to the Teachers' & Parents' Resources, this goes with 'The Spectacular World of Spiders: Scene 1'.

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TIME FOR DINNER

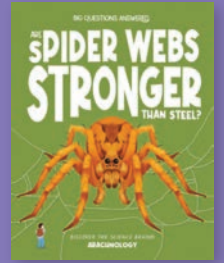
This spider has wandered too far from its web and is trying to find its way back to its dinner – the fly. Can you help the spider find its way back to the fly?



ARE SPIDER WEBS STRONGER THAN STEEL?

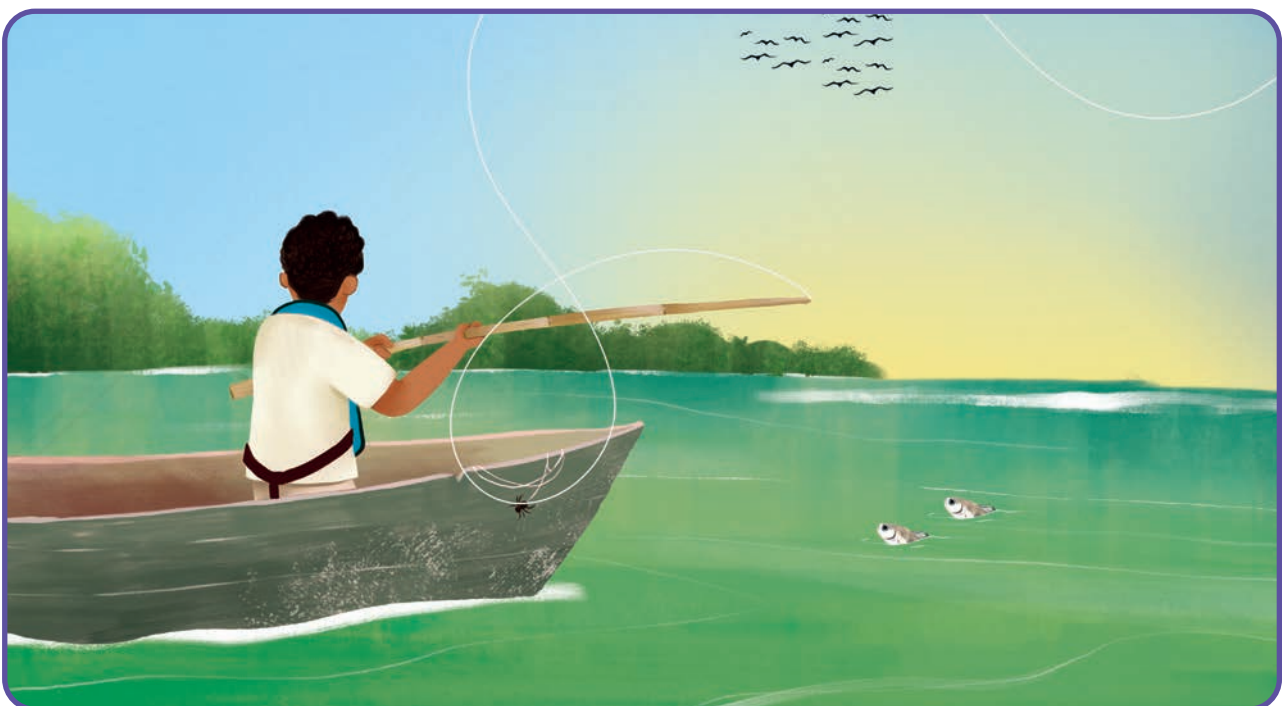
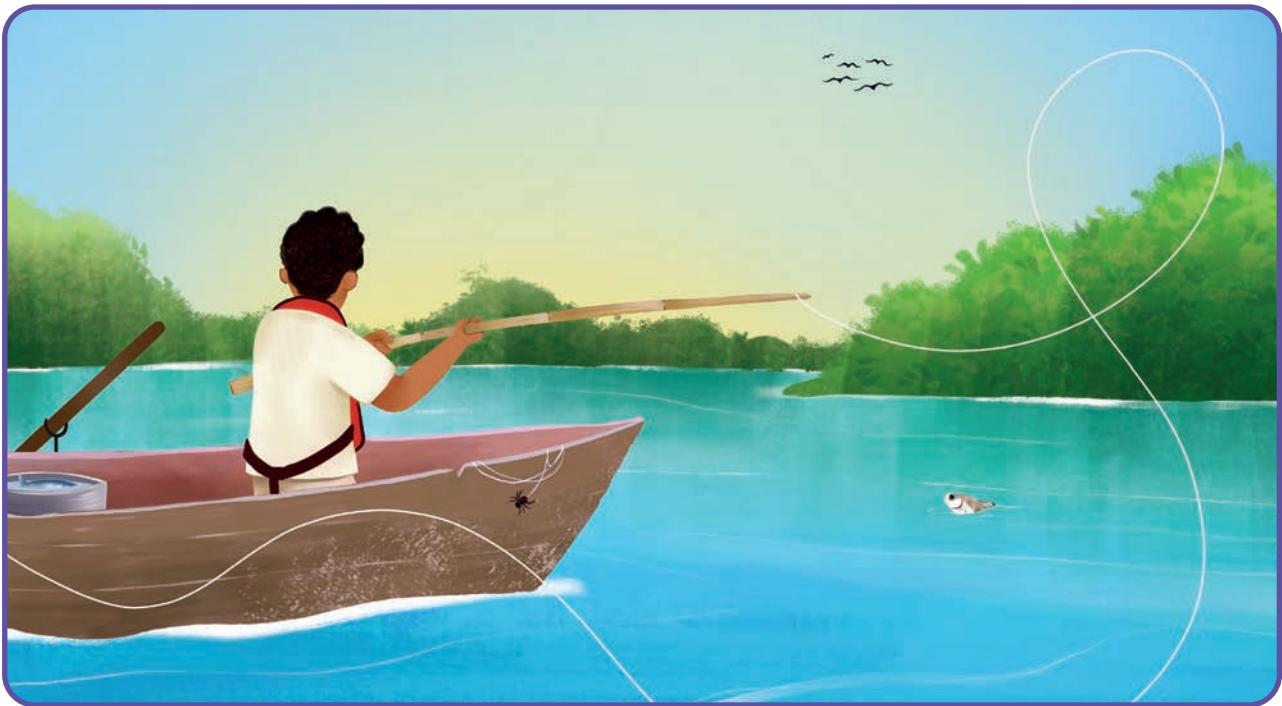
For reference to the Teachers' & Parents' Resources, this goes with 'Ancient Uses of Spider Silk: Scene 2'.

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SNEAKY SPIDER

This sneaky spider is playing games with us! Can you spot the 8 differences between the two scenes? Circle them when you spot them.

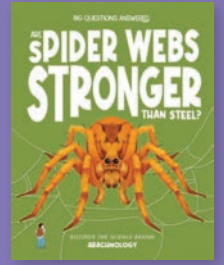




ARE SPIDER WEBS STRONGER THAN STEEL?

For reference to the Teachers' & Parents' Resources, this goes with 'The Meaning of Strength: Scene 3'.

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WRITE YOUR OWN SPIDER STORY

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

STICKY

SUPERMATERIAL

ARACHNOLOGIST

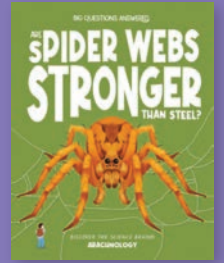
A large, light-orange, torn-edge rectangular area containing 15 horizontal lines for writing a story.



ARE SPIDER WEBS STRONGER THAN STEEL?

For reference to the Teachers' & Parents' Resources, this goes with 'Caught in the Web: Scene 4'.

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INCREDIBLE SPIDER FACTS

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



Draw your spider in here!

This spider is a

How big is this spider?

Where does this spider live?

What does this spider eat?

This spider's webs arestrong.

Extra cool facts:

.....

.....

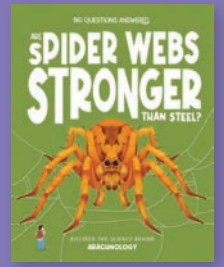


Why not print this sheet off multiple times and create a spider booklet full of lots of different spiders!

ARE SPIDER WEBS STRONGER THAN STEEL?

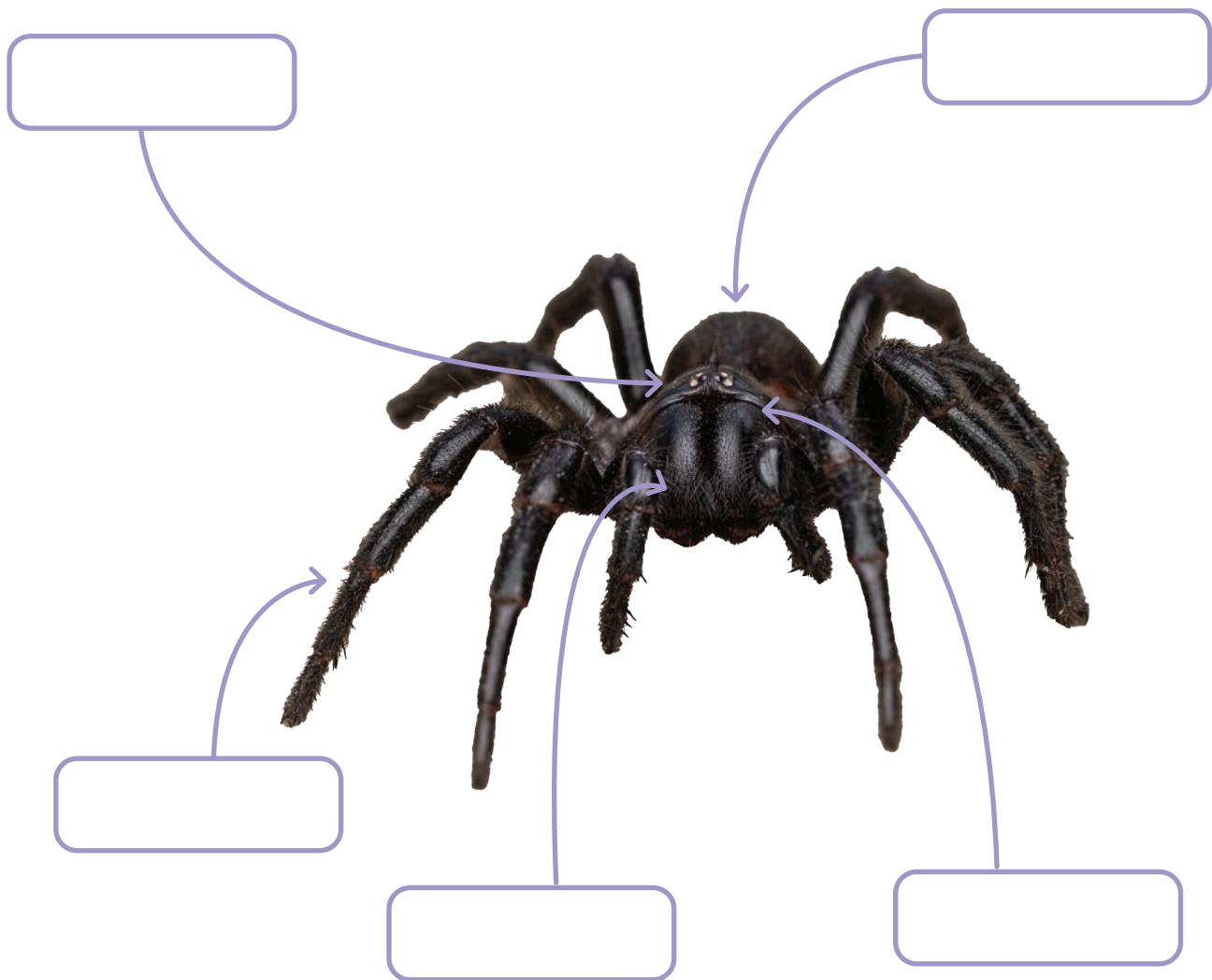
For reference to the Teachers' & Parents' Resources, this goes with 'Eyes in the Sky: Scene 5'.

www.thebigquestionsanswered.com



SPIDER BODIES

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



LEG

JAW

SPINNERETS

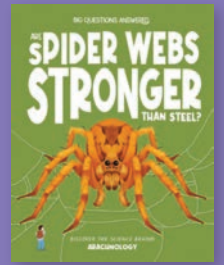
EYE

HEAD

ARE SPIDER WEBS STRONGER THAN STEEL?

For reference to the Teachers' & Parents' Resources, this goes with 'The Brown Recluse Spider: Scene 6'.

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CREEPY CRAWLY CROSSWORD

Scientists use lots of words to describe spiders and their webs. Use the clues below to work out the different terms they use and then fill in the boxes. The first one has been done for you.

1	H				2			3				
	A											
	R											
4	V											
	E											
	S											
5	T			6								

TENSILE

~~HARVEST~~

SILK

VENOMOUS

SPECIES

CAMOUFLAGE

ACROSS

- 2. A group of living things that share characteristics and features, and produce young together.
- 4. A creature that produces venom to hurt or kill their prey.
- 5. The amount of stress a material can stand when pulled or stretched before breaking.

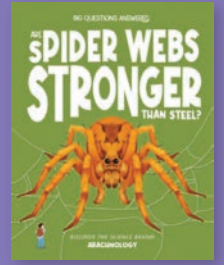
DOWN

- 1. ~~To gather or collect a plant or animal product.~~
- 3. The way animals blend in with their surroundings so they can't be seen easily.
- 6. A material produced by spiders. It can be both sticky and strong.

ARE SPIDER WEBS STRONGER THAN STEEL?

For reference to the Teachers' & Parents' Resources, this goes with 'Pencil-Thick Silk: Scene 7'.

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WEB OF WORDS

Scientists use all sorts of words when learning about spiders! Can you find and circle the words listed below, in the grid. Words can be found in any direction (including diagonals) and can overlap each other.

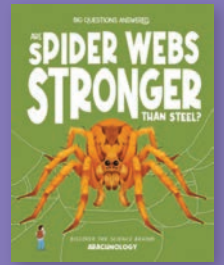
S	C	V	T	I	P	A	N	Y	G	V	Y	Z	X	L
N	H	P	O	W	E	R	F	U	L	T	J	N	J	O
D	E	V	I	B	R	A	T	I	O	N	S	G	J	Y
L	S	C	M	A	I	C	B	V	M	O	N	J	P	K
D	P	I	J	M	T	H	B	H	L	H	W	A	D	E
L	S	R	L	O	I	N	V	N	K	A	E	K	Z	S
S	A	V	E	K	Z	I	E	C	M	R	B	W	L	T
C	T	V	Y	Y	S	D	N	Z	N	V	I	L	A	H
G	P	I	J	L	Z	X	O	M	F	E	D	B	D	N
M	E	M	C	K	B	Q	M	D	I	S	Q	B	M	W
M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

SPIDER	ARACHNID	POWERFUL
SILK	STICKY	VENOMOUS
HARVEST	VIBRATIONS	
PREY	WEB	

ARE SPIDER WEBS STRONGER THAN STEEL?

For reference to the Teachers' & Parents' Resources, this goes with 'Silk VS Steel: Scene 8'.

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SPIDER SWAP

Scientists have discovered more than 50,000 species of spider. Can you match up the photograph of each spider with its description? Draw a line to match up the picture with the correct name.

Fact:

I'm one of the most venomous spiders in the world. I'm native to Australia.



Fact:

My silk is the toughest ever studied. It's so strong that it can hold animals.



Fact:

I'm the hairiest spider! Some of my hairs are incredibly sharp so I use them to defend myself.



Fact:

I'm known for my excellent hunting skills. I hunt on the ground during the day, chasing and leaping on my prey.



I am...
A TARANTULA



I am...
A WOLF SPIDER



I am...
A SYDNEY FUNNEL-WEB SPIDER

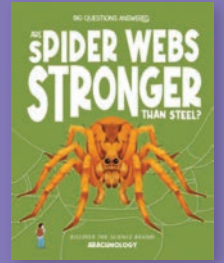


I am...
A DARWIN'S BARK SPIDER

ARE SPIDER WEBS STRONGER THAN STEEL?

For reference to the Teachers' & Parents' Resources, this goes with 'The Recipe for Silk: Scene 9'.

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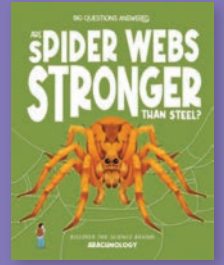
A MESSAGE IN THE WEB!

You're on a journey through the jungle when you spot a funny looking spider web. It seems the spider is trying to tell you something! Can you use the code below to work out what the message says?

A	B	C	D	E	F	G	H	I	J	K	L	M

N	O	P	Q	R	S	T	U	V	W	X	Y	Z

<input type="text"/>	<input type="text"/>	<input type="text"/>	
<input type="text"/>	<input type="text"/>	<input type="text"/>	
		<input type="text"/>	
<input type="text"/>	<input type="text"/>	<input type="text"/>	
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>



STUNNING SPIDER FACTS

Can you use the words below to fill in the blanks and uncover some stunning spider facts? Each answer can only be used once.

breathe

dance

orange

blue

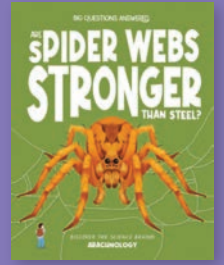
legs

1. It usually takes 6 months, but spiders can regrow lost _____.
2. The Goliath Birdeater is the world's largest spider. The heaviest Goliath ever discovered weighed the same amount as an _____.
3. Spiders' blood contains copper, which makes their blood _____.
4. Not only do some male species like to do a _____ for their mate, but they also like to offer them gifts wrapped in silk.
5. Some species of spider can trap air inside a silk bubble, using it to _____ while underwater.

ARE SPIDER WEBS STRONGER THAN STEEL?

For reference to the Teachers' & Parents' Resources, this goes with 'Building Cellular Bridges: Scene II'.

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DISCOVERING SPIDER SECRETS

Can you use what you've learnt about spiders to work out which of the sentences are true and which are false?

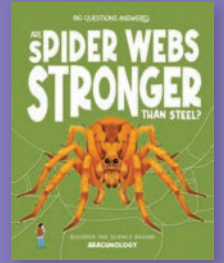
	SENTENCE	TRUE	FALSE
1	Spiders are important predators because they control the number of insects in an ecosystem.		
2	Larger spiders are always more dangerous.		
3	Spiders are found on all continents.		
4	All spiders produce silk, but only half of them spin webs to catch their prey.		
5	Spiders can eat old webs to make new silk.		



ARE SPIDER WEBS STRONGER THAN STEEL?

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

www.thebigquestionsanswered.com



COBWEB QUERIES

Read the questions below and think about your own opinions before filling in your answers.

What do you find most interesting about spiders?

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

Would you keep a spider as a pet? Why or why not?

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

If you were an arachnologist, what would you most enjoy – discovering new spiders or making discoveries about what spider silk can do?

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

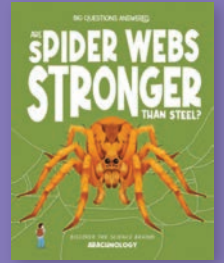
What would be your big question about spiders?

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

ARE SPIDER WEBS STRONGER THAN STEEL?

For reference to the Teachers' & Parents' Resources, this goes with 'Spiderwebs Stronger Than Steel: Scene 13'.

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SPOT THE SPIDER

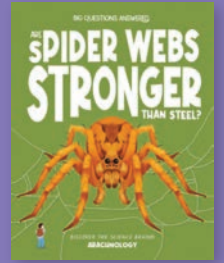
Look at all these spiders! Can you spot the one that stands out from the rest?



ARE SPIDER WEBS STRONGER THAN STEEL?

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

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SYMMETRICAL SPIDER

Spiders need all eight legs to get around. Below is an illustration of a spider – get creative and complete the drawing of this spider! Finish the picture by colouring it in.



MORE FUN ARACHNOLOGY ACTIVITIES

COLOURING 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.

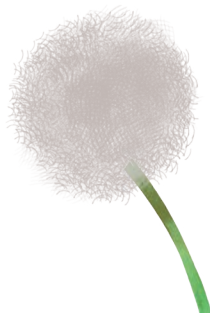
FIND THE SCIENTIST

There are lots of different scientists below. Can you find the arachnologist?
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.



= 2



= 5



= 3



+



-



=



-



+



=



+



+



=



+



-



=

COLOUR ME IN!

This colouring sheet is based on scene 1: The Spectacular World of Spiders.



COLOUR ME IN!

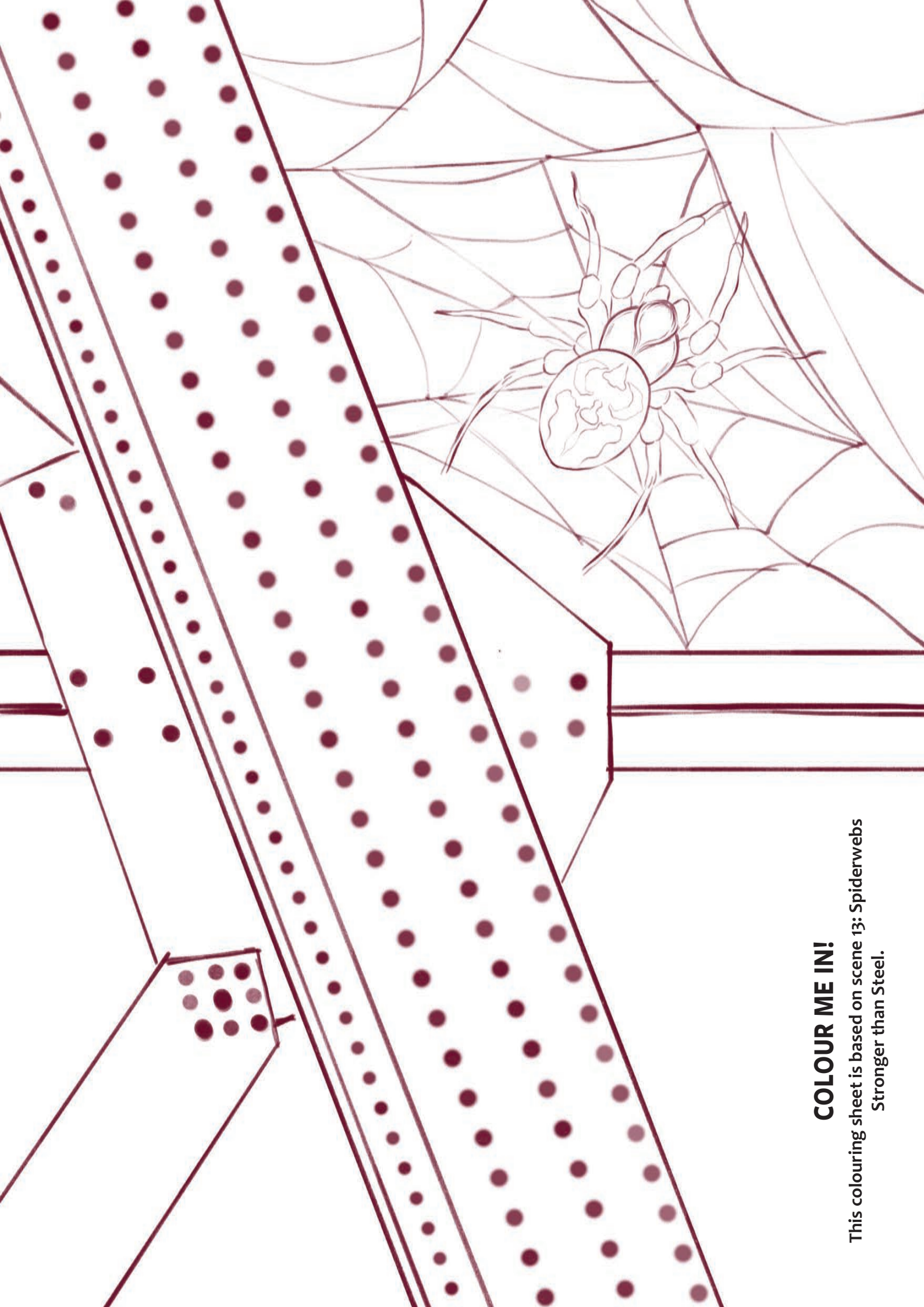
This colouring sheet is based on scene 4: Caught in the Web.





COLOUR ME IN!

This colouring sheet is based on scene 7: Penil-Thick Silk.



COLOUR ME IN!

This colouring sheet is based on scene 13: Spiderwebs
Stronger than Steel.

DOT-TO-DOT

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



YOUNG ARACHNOLOGISTS' ACTIVITY ANSWERS

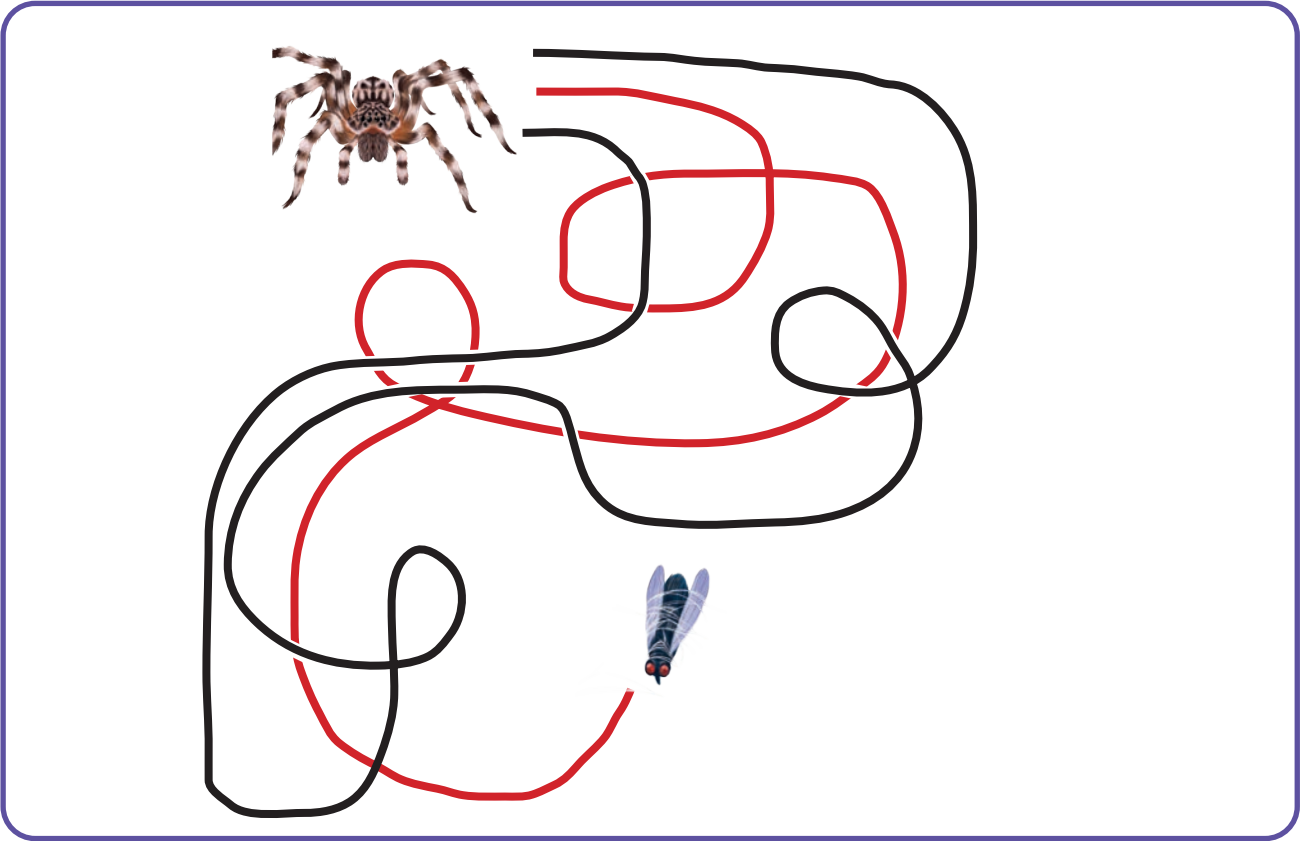
Find the answers to the activities on the following pages.

ACTIVITY ANSWERS

Check your answers against the correct answers below!

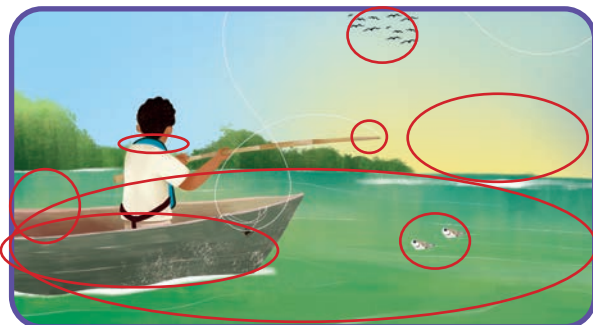
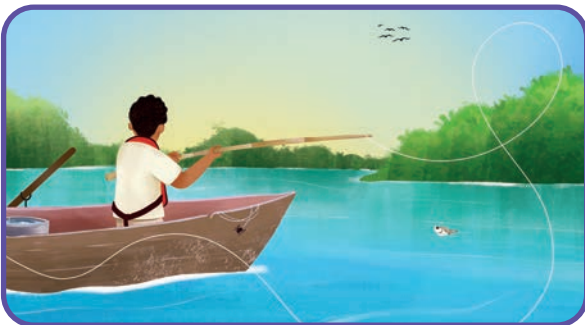
TIME FOR DINNER ANSWERS

The answers below are for the 'line maze' activity on page 3.



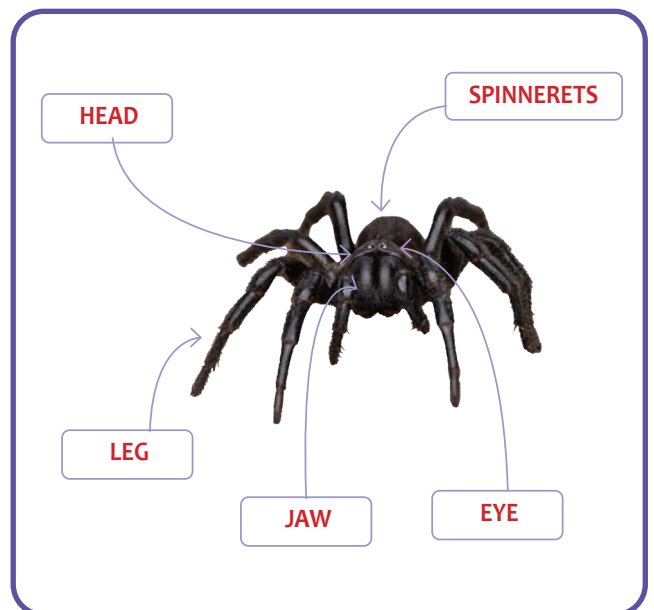
SNEAKY SPIDER ANSWERS

The answers below are for the 'spot the difference' activity on page 4.



SPIDER BODIES ANSWERS

The answers below are for the 'label the parts' activities on page 7.



ACTIVITY ANSWERS

Check your answers against the correct answers below!

STUNNING SPIDER FACTS ANSWERS

The answers below are for the 'fill in the blanks' activity on page 12.

1. It usually takes 6 months, but spiders can regrow lost **legs**.
2. The Goliath Birdeater is the world's largest spider. The heaviest Goliath ever discovered weighed the same amount as an **orange**.
3. Spiders' blood contains copper, which makes their blood **blue**.
4. Not only do some male species like to do a **dance** for their mate, but they also like to offer them gifts wrapped in silk.
5. Some species of spider can trap air inside a silk bubble, using it to **breathe** while underwater.

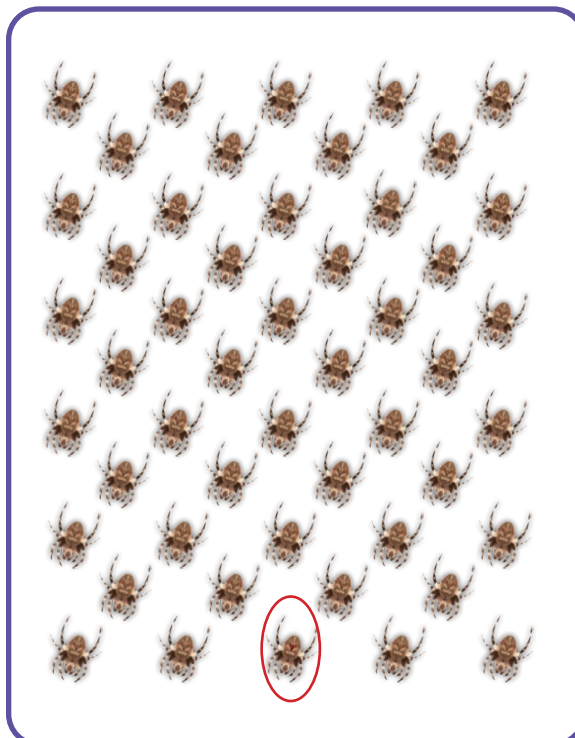
DISCOVERING SPIDER SECRETS ANSWERS

The answers below are for the 'true or false' activity on page 13.

	SENTENCE	TRUE	FALSE
1	Spiders are important predators because they control the number of insects in an ecosystem.	TRUE	
2	Larger spiders are always more dangerous.		FALSE
3	Spiders are found on all continents.		FALSE
4	All spiders produce silk, but only half of them spin webs to catch their prey.	TRUE	
5	Spiders can eat old webs to make new silk.	TRUE	

SPOT THE SPIDER ANSWERS

The answers below are for the 'odd one out' activity on page 15.

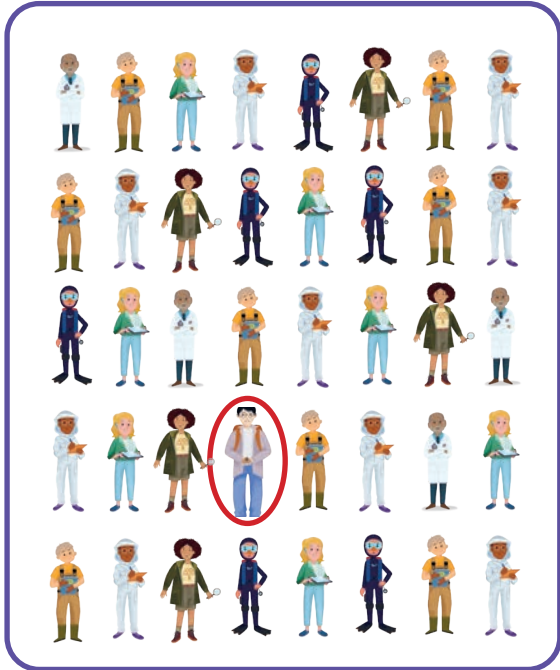


EXTRA ACTIVITY ANSWERS

Check your answers against the correct answers below!

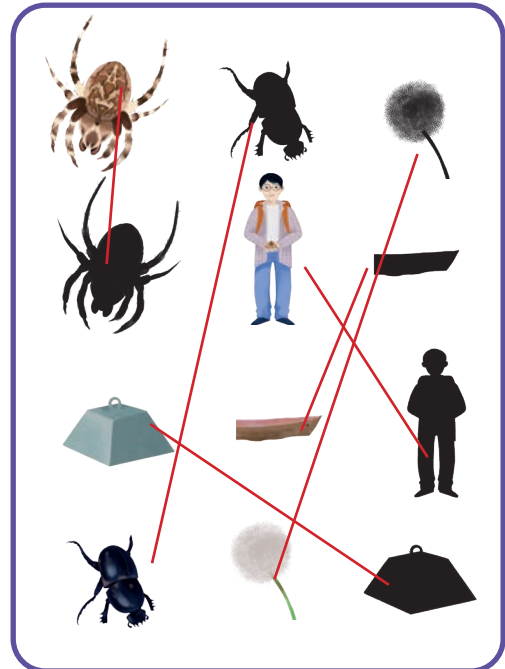
FIND THE SCIENTIST

The answers below are for the activity on page 18.



MATCH THE SHAPE

The answers below are for the activity on page 19.



SIMPLE SUMS

The answers below are for the activity on page 20.

$$\begin{array}{l} \text{Boy} + \text{Boy} - \text{Spider} = \boxed{1} \\ \text{Pyramid} - \text{Spider} + \text{Boy} = \boxed{4} \\ \text{Spider} + \text{Boy} + \text{Spider} = \boxed{8} \\ \text{Pyramid} + \text{Spider} - \text{Boy} = \boxed{6} \end{array}$$