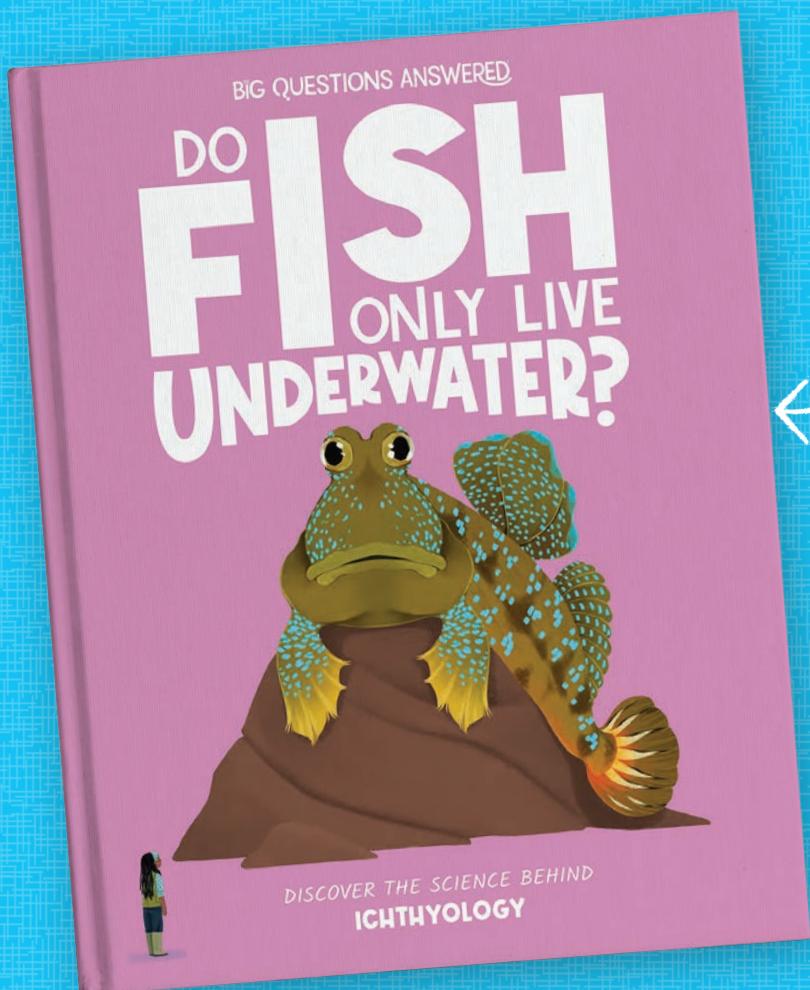
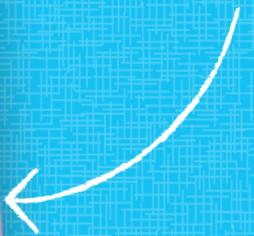


THE BIG QUESTIONS ANSWERED

YOUNG ICHTHYOLOGIST'S ACTIVITY PACK



Full of fun and exciting activities to accompany this book!



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

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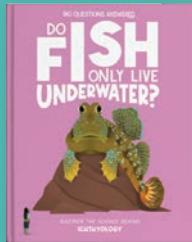


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DO FISH ONLY LIVE UNDERWATER?

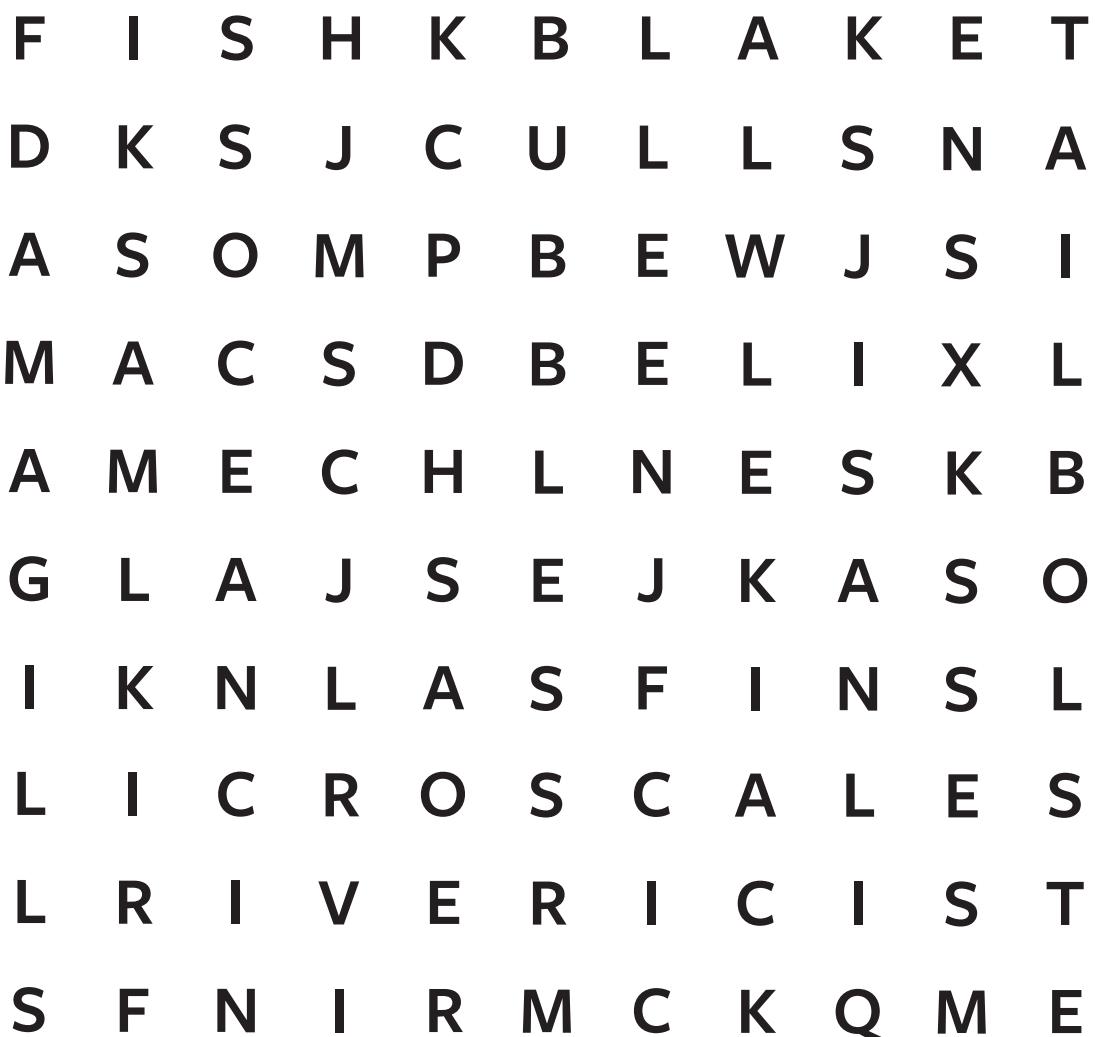
For reference to the Teachers' & Parents' Resources, this goes with 'Prehistoric Fish: Scene 1'.

www.thebigquestionsanswered.com



FANTASTIC WORLD OF FISH

Ichthyologists want to learn everything there is about fish! Can you find and circle the words listed below, in the grid? Words can be found up, down, left and right.



FISH

TAIL

FINS

GILLS

SCALES

BUBBLES

OCEAN

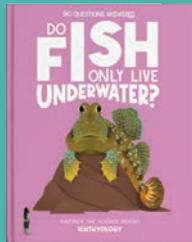
RIVER

LAKE

DO FISH ONLY LIVE UNDERWATER?

For reference to the Teachers' & Parents' Resources, this goes with 'Teamwork in Nature: Scene 2'.

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FISHY FACTS

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



Draw your fish in here!

This fish is called

How big does this fish grow to be?

How many fins does this fish have?

Where does this fish live?

What does this fish eat?

Extra cool facts:



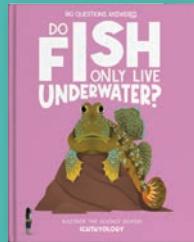
Why not print this sheet off multiple times to create a fish booklet full of lots of different types!



DO FISH ONLY LIVE UNDERWATER?

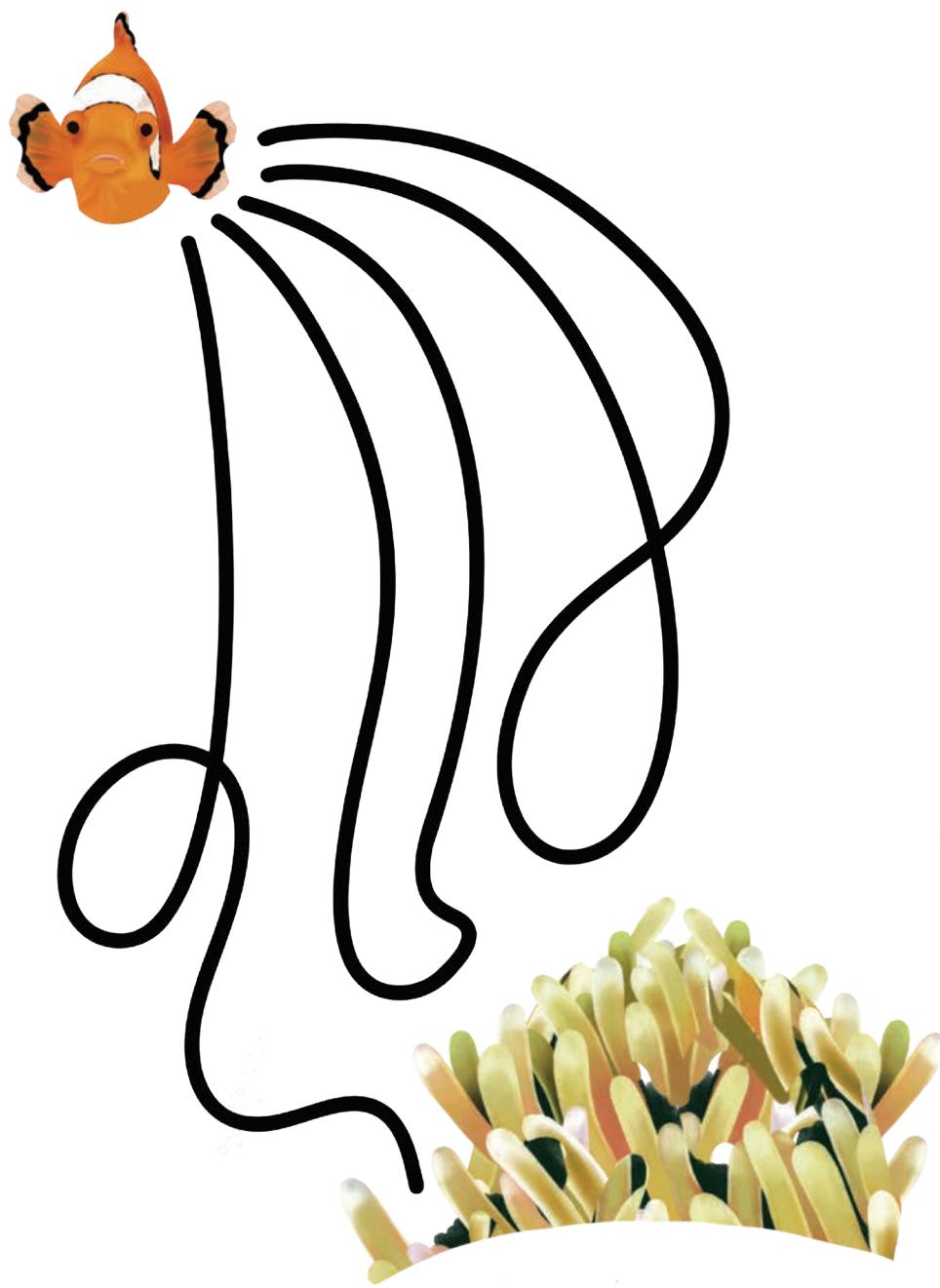
For reference to the Teachers' & Parents' Resources, this goes with 'Hiding From Predators: Scene 3'.

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SWIM TO SAFETY

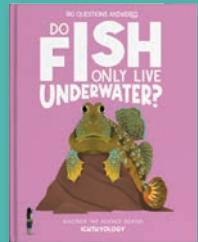
This clownfish needs to find its way back to its anemone home where it is safe from predators! Can you help them follow the maze and reach safety?



DO FISH ONLY LIVE UNDERWATER?

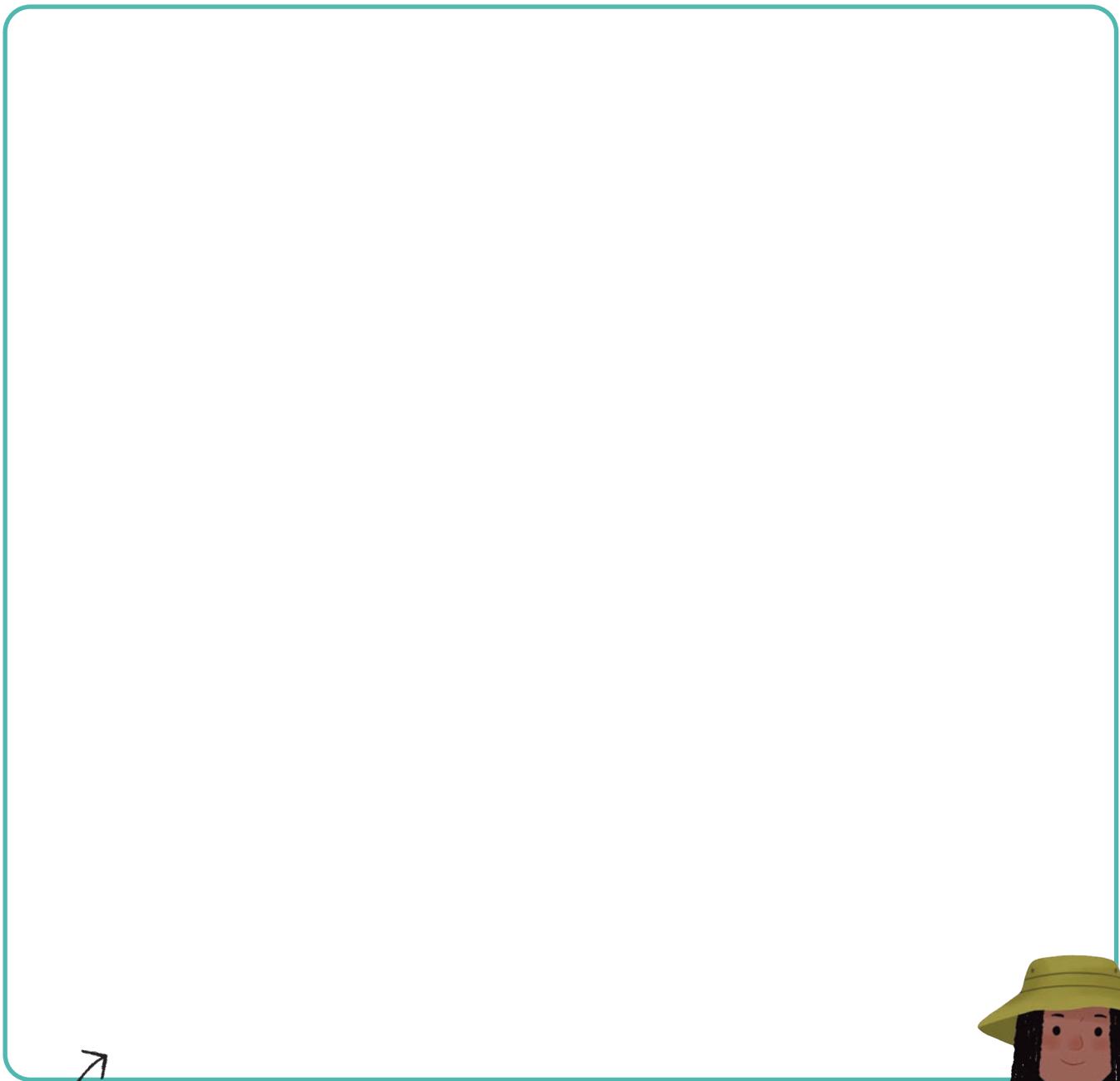
For reference to the Teachers' & Parents' Resources, this goes with 'Attracting Prey: Scene 4'.

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DRAW YOUR OWN DEEP-SEA DISCOVERY

Scientists think there are still lots of undiscovered ocean creatures! Imagine you have made your own discovery of something hidden in the ocean's waters and draw a scene to show it.



Draw your discovery
in here!

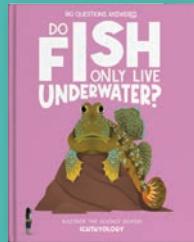
Have you discovered a
new type of animal or
plant? If so, give it a name!



DO FISH ONLY LIVE UNDERWATER?

For reference to the Teachers' & Parents' Resources, this goes with 'Impossibly Cold Habitats: Scene 5'.

www.thebigquestionsanswered.com



WHERE DO I LIVE?

Fish live in many different habitats across the world. Can you match up each fish with its habitat? Draw a line between each photograph of the fish and its habitat.

Fact:

These habitats are full of trees and plants. There's lots of rain and waterfalls which keeps the air wet.



Fact:

These habitats get hardly any rain. Hot one have few plants or trees, and few, shallow streams.



Fact:

These sandy places often become flooded with water so animals have to cope with changing water levels.



Fact:

This habitat is very cold and dark. There is lots of pressure from water pushing down from above.



I am...

A PIRANHA.

I live in the rainforest.



I am...

ANGLERFISH.

I live in the deep ocean.



I am...

A MUDSKIPPER.

I live in swamps.



I am...

A DESERT PUPFISH.

I live in hot deserts.

DO FISH ONLY LIVE UNDERWATER?

For reference to the Teachers' & Parents' Resources, this goes with 'Impossibly Hot Habitats: Scene 6'.

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SLIPPERY FISH

These sneaky, slippery fish are trying to catch us out! Can you spot the 10 differences between the 2 scenes? Circle them when you spot them.

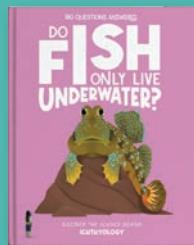




DO FISH ONLY LIVE UNDERWATER?

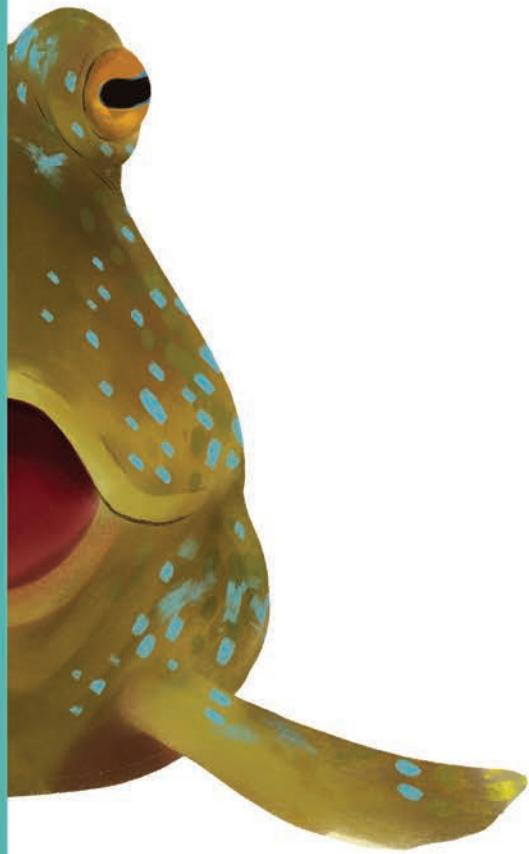
For reference to the Teachers' & Parents' Resources, this goes with 'Out of Water: Mudskippers: Scene 7'.

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MIRROR THE MUDSKIPPER

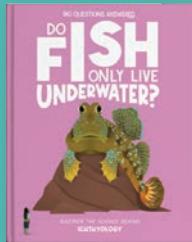
The mudskipper is one of the most interesting fish scientists have studied. Can you complete the picture of the mudskipper by drawing the other half? Finish the picture by colouring it in.



DO FISH ONLY LIVE UNDERWATER?

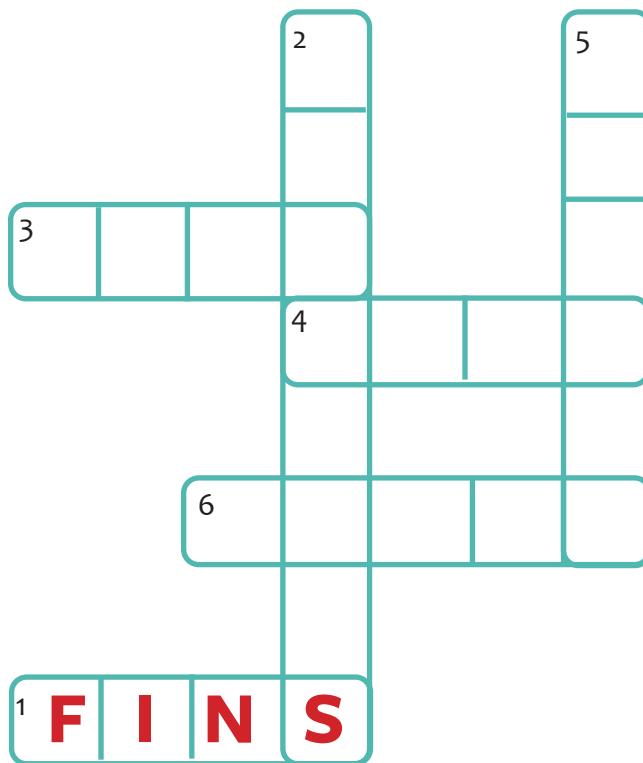
For reference to the Teachers' & Parents' Resources, this goes with 'Out of Water: Lungfish: Scene 8'.

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KNOW YOUR FISH!

Fish may all look different, but they share lots of the same sort of body parts. Use the clues below to work out the different body parts and fill in the boxes. The first one has been done for you.



TAIL

~~FINS~~

GILLS

EYES

SCALES

NOSTRILS

DOWN

- Fish have two of these to help them smell.
- Fish have lots of these! They cover their whole body to keep it safe and protected.

ACROSS

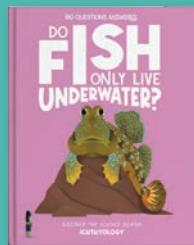
- Fish usually have 2 or more of these parts. They help them, ~~move, turn, and stay balanced in the water~~.
- These are the body parts that help fish see.
- This is at the back of the fish's body. It helps them swim forward through the water.
- This body part helps fish breathe underwater.



DO FISH ONLY LIVE UNDERWATER?

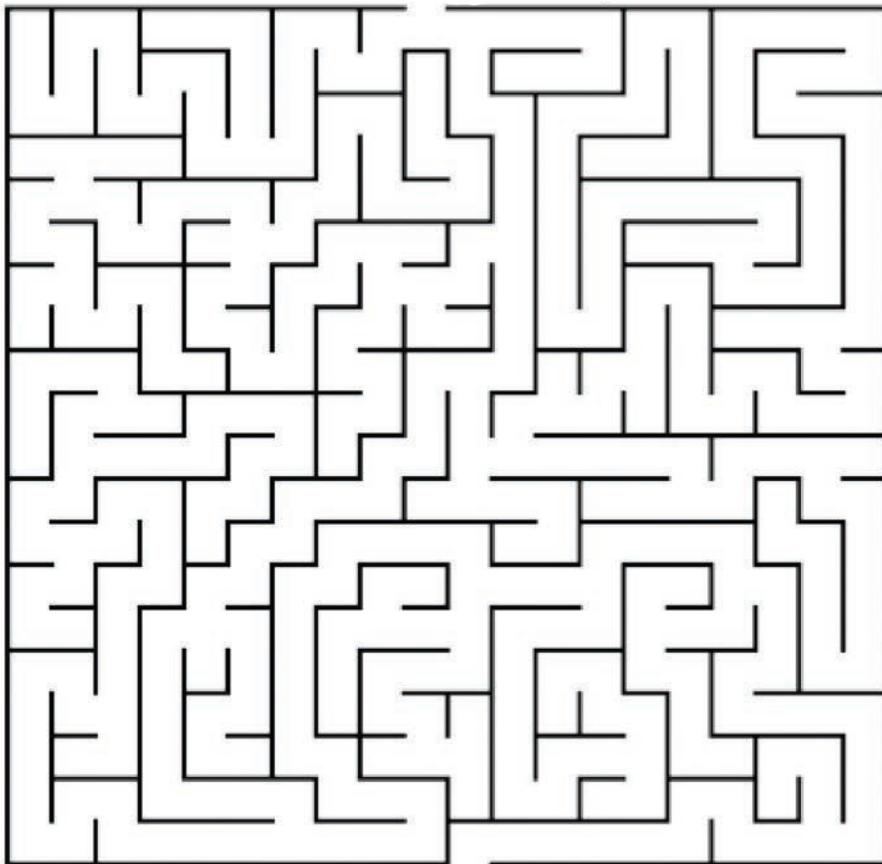
For reference to the Teachers' & Parents' Resources, this goes with 'Out of Water: Walking Catfish: Scene 9'.

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BACK TO THE POND

This catfish needs to find its way back to the water! Can you help it make it back to the pond?

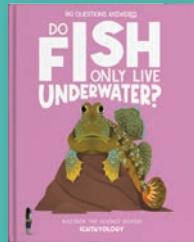




DO FISH ONLY LIVE UNDERWATER?

For reference to the Teachers' & Parents' Resources, this goes with 'Out of Water: Snakeheads: Scene 10'.

www.thebigquestionsanswered.com



CATCH THE WORD!

Oh no! Fish have been swimming around frantically and mixed up a bunch of words! Test your word-solving skills by trying to unscramble the words. They are all related to fish species. There is a list of the correct words below to help you.

NEASHEDAK

MONSAL

SHIFLONWC

ROTUT

CHITAFS

MIPDUSKERP

NUAT

TUNA

CLOWNFISH

TROUT

CATFISH

SNAKEHEAD

SALMON

MUDSKIPPER

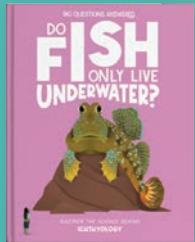
EXTRA ACTIVITY - WORD WITHIN WORDS

How many words can you find within the word 'goldfish'?

1. You can only use letters within the word 'goldfish'.
2. Each of these letters can only be used once: G, O, L, D, F, I, S, H.
3. You can't use any other letters from the alphabet.

EXAMPLE: you can make the word 'dog' using the letters in GOLDFISH.

GOLDFISH



FASCINATING FISH ABILITIES

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

FOOD CHAIN

FRESHWATER

PREDATOR

PARASITES

SEEDS

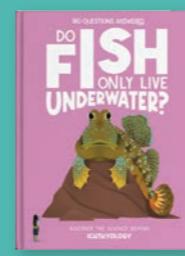
NUTRIENTS

1. Fish live in many places around the world. Some species live in saltwater sources, like oceans, and others live in _____ sources like rivers and ponds.
2. Fish do amazing things to help the natural world. Their poop is full of _____ that help plants grow, which keeps the ecosystem alive and healthy.
3. Some plants also rely on fish to spread their _____. This lets new plants grow in different areas, keeping the species alive.
4. Fish can be both _____ and prey! This means that they help keep the food chain balanced.
5. It is important that the _____ stays balanced as that way there are never too many of one type of plant or animal in an ecosystem.
6. Some animals work together in nature. Small fish sometimes eat _____ off bigger animals in exchange for safety and protection.

DO FISH ONLY LIVE UNDERWATER?

For reference to the Teachers' & Parents' Resources, this goes with 'The Danger of Extinction: Scene 12'.

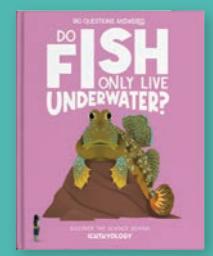
www.thebigquestionsanswered.com



DO FISH ONLY LIVE UNDERWATER?

For reference to the Teachers' & Parents' Resources, this goes with 'Ancient Relatives: Scene 13'.

www.thebigquestionsanswered.com



REFLECTING ON FISH

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

What do you find the most interesting about fish?

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

If you were an ichthyologist, what would you most want to learn about fish?

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

What do you think would happen if there were no more fish left in the ocean?

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

Do you think it's important that we protect fish from extinction?
Why or why not?

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

FACT OR FISHY?

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

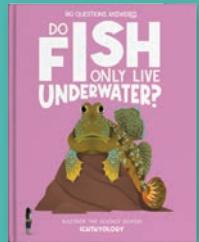
	SENTENCE	TRUE	FALSE
1	No fish can survive out of water.		
2	Scientists think ancient fish developed into early amphibians.		
3	The scientists who study fish are called fishologists.		
4	Fish can't breathe underwater.		
5	Some fish can walk on land.		



DO FISH ONLY LIVE UNDERWATER?

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

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WRITE YOUR OWN ICHTHYOLOGY STORY

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

FISH

ICHTHYOLOGIST

DISCOVERED

MORE FUN ICHTHYOLOGY 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 icthyologist?
Circle them when you find them – there's only one!



SIMPLE SUMS

Below are 3 objects which represent different numbers.

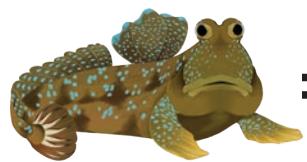
Work out the sum based on what each object represents and write your answers in the boxes.



= 4



= 2



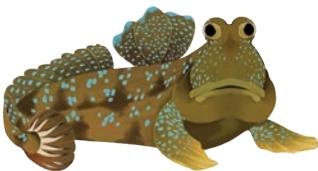
= 1



+



+



=



+



+



=



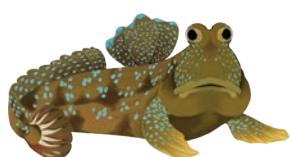
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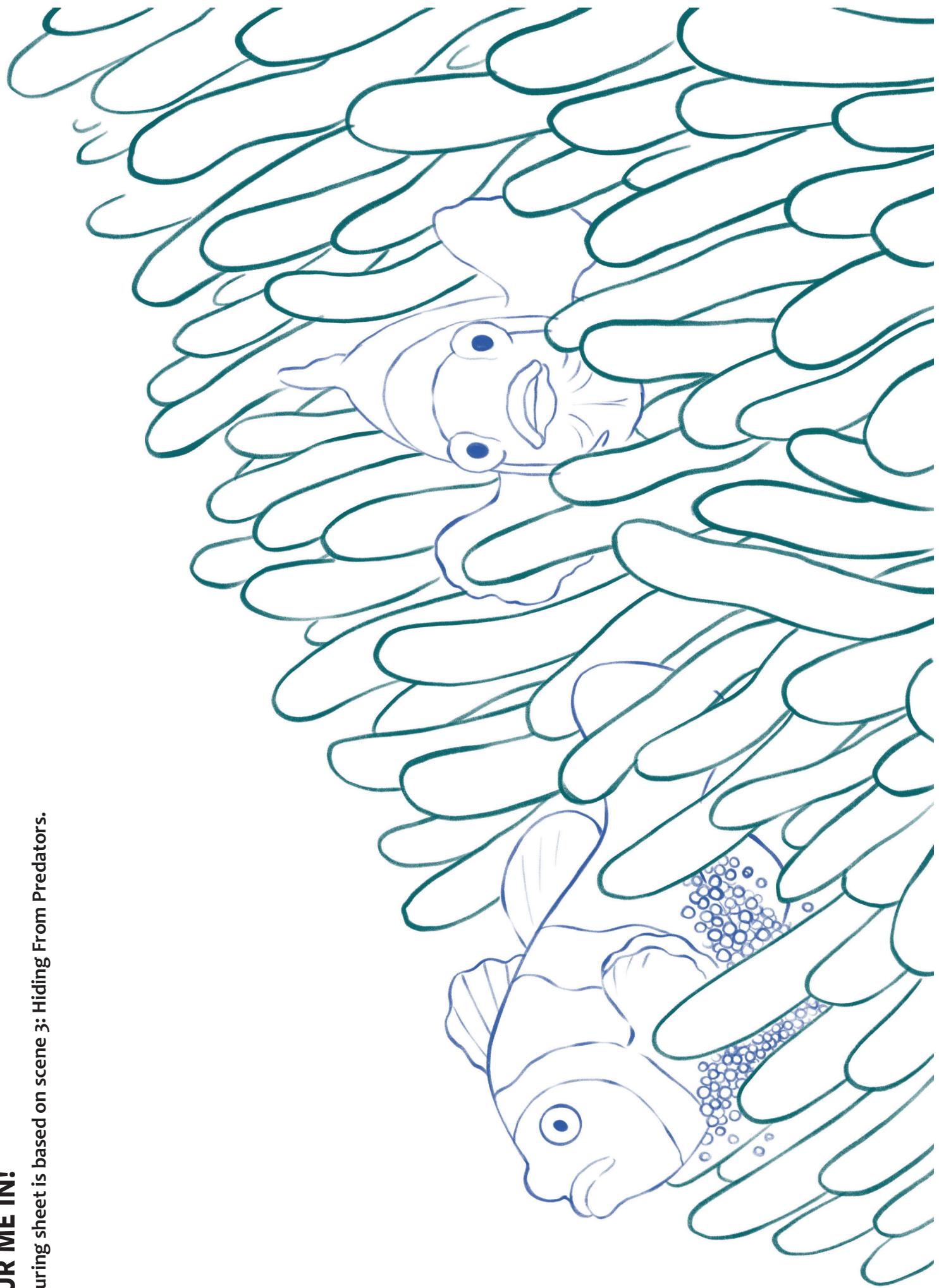
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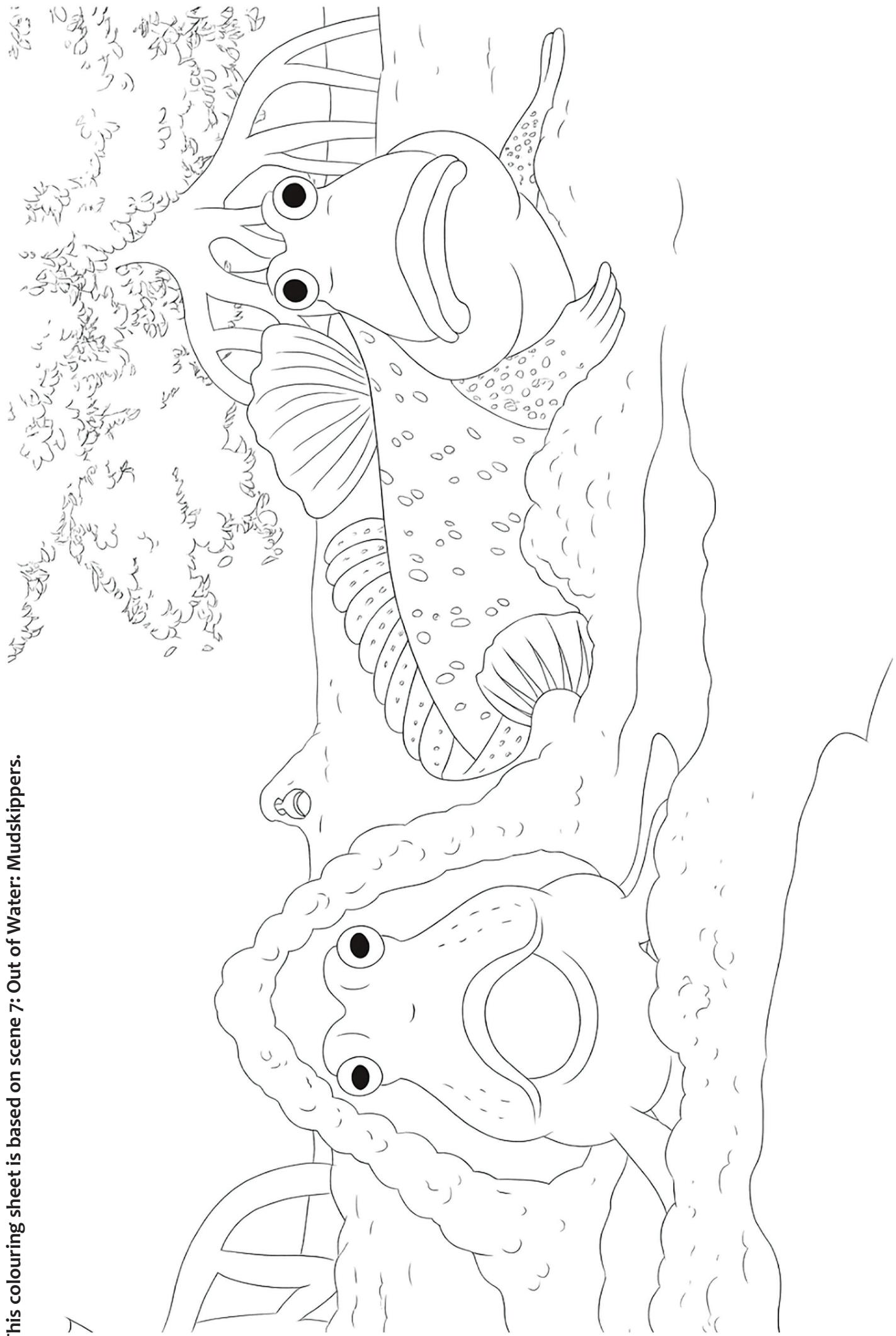
COLOUR ME IN!

This colouring sheet is based on scene 3: Hiding From Predators.



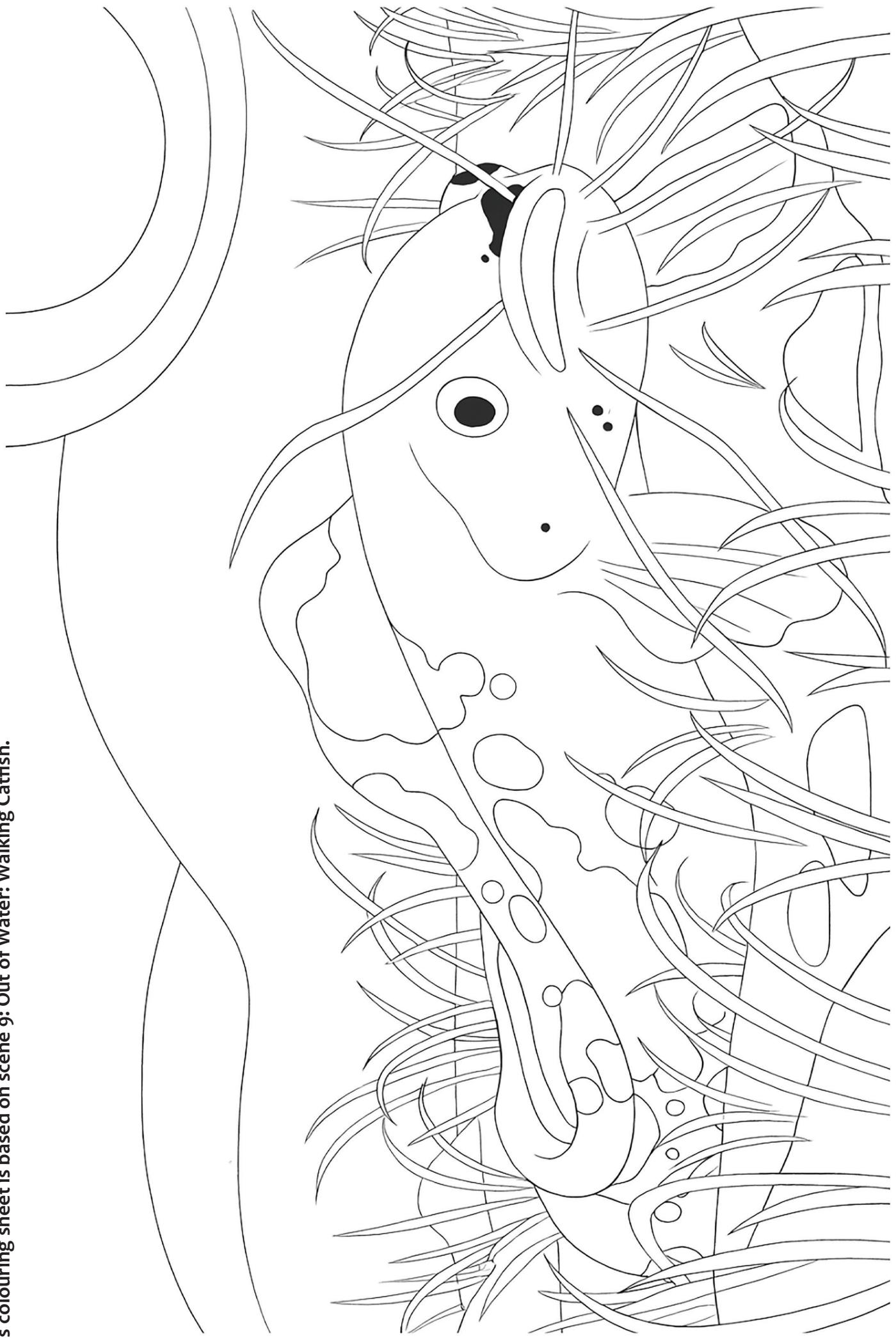
COLOUR ME IN!

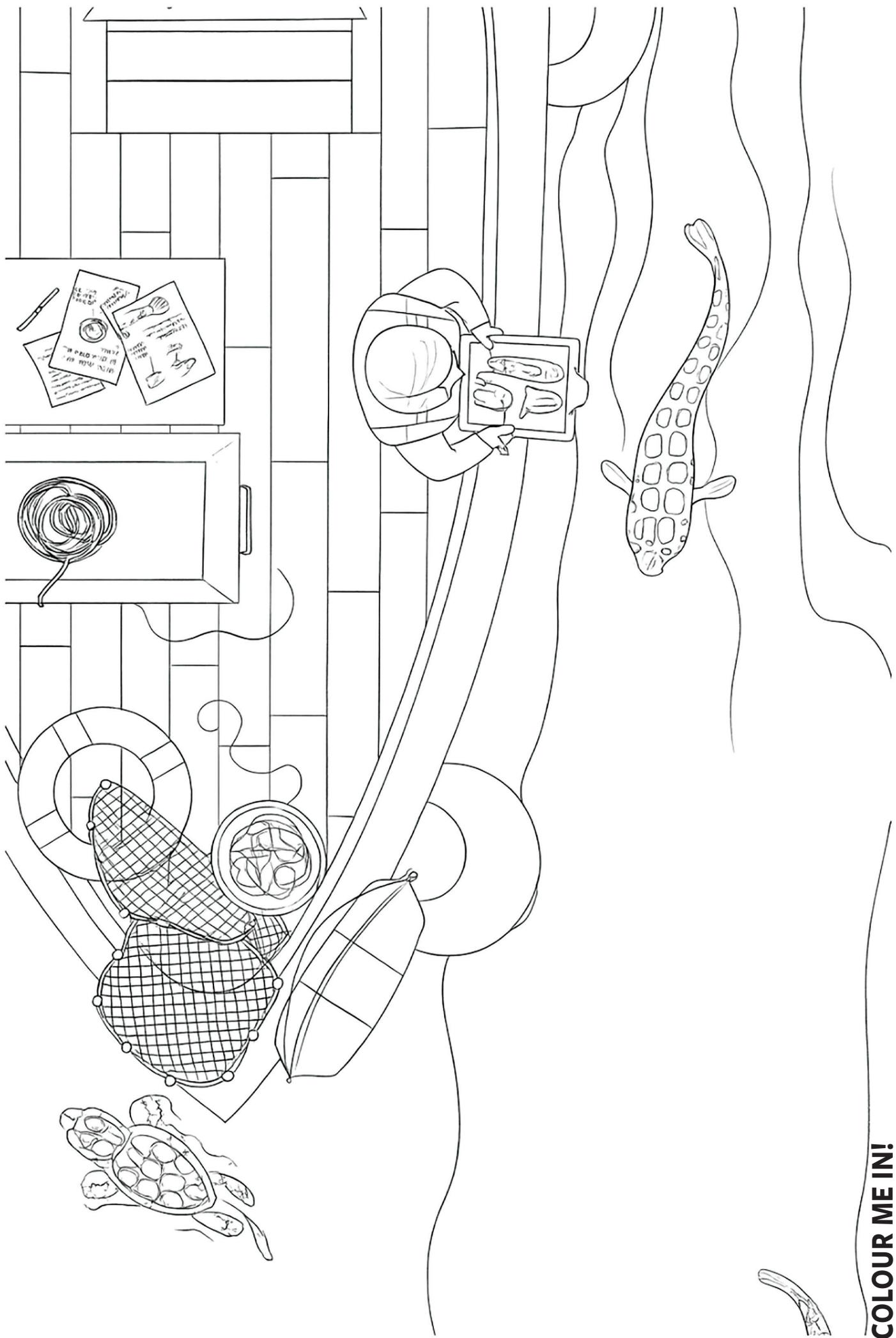
This colouring sheet is based on scene 7: Out of Water: Mudskippers.



COLOUR ME IN!

This colouring sheet is based on scene 9: Out of Water: Walking Catfish.





COLOUR ME IN!

This colouring sheet is based on scene 10: Out of Water: Snakeheads.

YOUNG ICHYTHYOLOGISTS' ACTIVITY ANSWERS

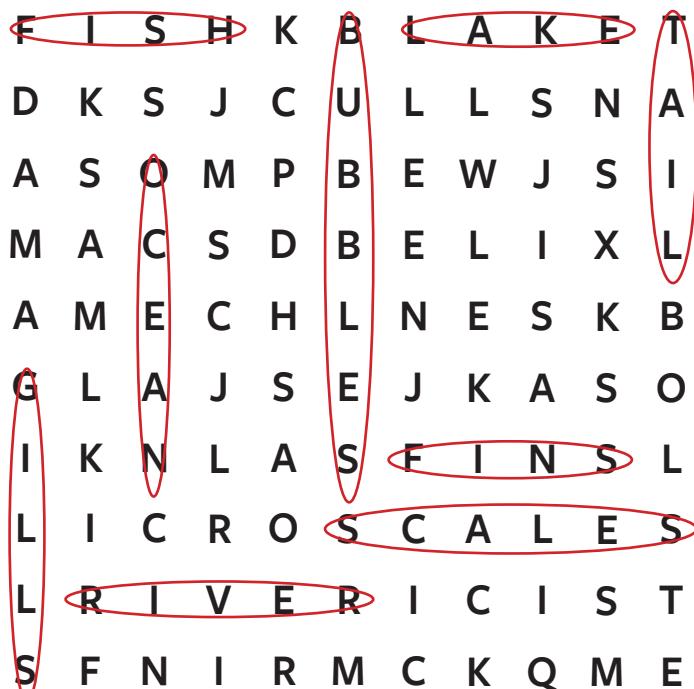
Find the answers to the activities on the following pages.

ACTIVITY ANSWERS

Check your answers against the correct answers below!

FANTASTIC WORLD OF FISH ANSWERS

The answers below are for the activity on page 3.



SWIM TO SAFETY ANSWERS

The answers below are for the activity on page 5.



WHERE DO I LIVE? ANSWERS

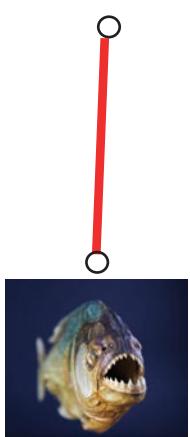
The answers below are for the activity on page 7.

Fact:
These habitats are full of trees and plants. There's lots of rain and waterfalls which keeps the air wet.

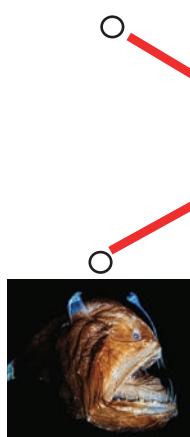
Fact:
These habitats get hardly any rain. Hot one have few plants or trees, and few, shallow streams.

Fact:
These sandy places often become flooded with water so animals have to cope with changing water levels.

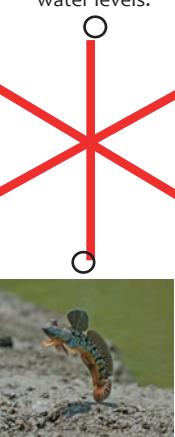
Fact:
This habitat is very cold and dark. There is lots of pressure from water pushing down from above.



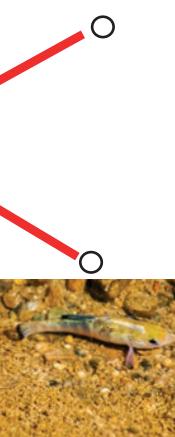
I am...
A PIRANHA.
I live in the rainforest.



I am...
ANGLERFISH.
I live in the deep ocean.



I am...
A MUDSKIPPER.
I live in swamps.



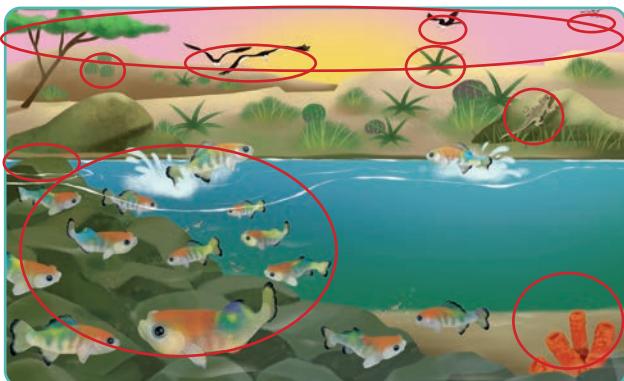
I am...
A DESERT PUPFISH.
I live in hot deserts.

ACTIVITY ANSWERS

Check your answers against the correct answers below!

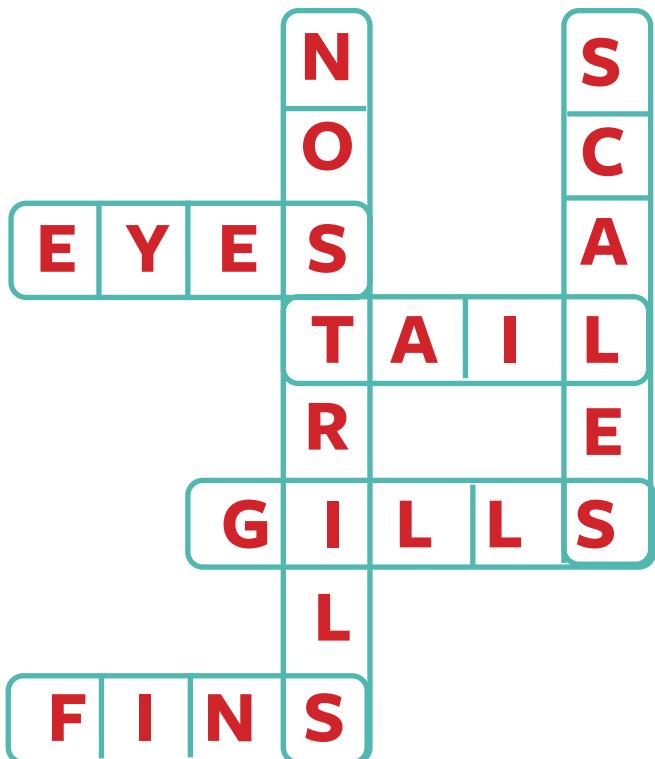
SLIPPERY FISH ANSWERS

The answers below are for the activity on page 8.



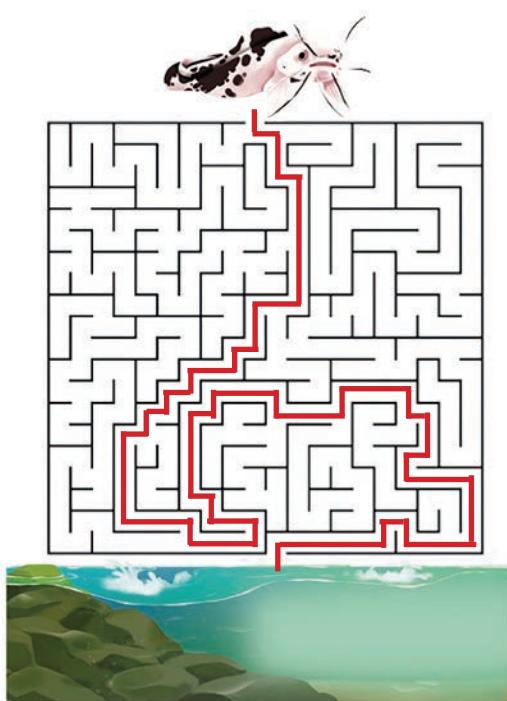
KNOW YOUR FISH ANSWERS

The answers below are for the activity on page 10.



BACK TO THE POND

The answers below are for the activity on page 11.



ACTIVITY ANSWERS

Check your answers against the correct answers below!

CATCH THE WORD ANSWERS

The answers below are for the activity on page 12.

NEASHEDAK	SNAKEHEAD
MONSAL	SALMON
SHIFLONWC	CLOWNFISH
ROTUT	TROUT
CHITAFS	CATFISH
MUPDUSKERP	MUDSKIPPER

FASCINATING FISH ABILITIES ANSWERS

The answers below are for the activity on page 13.

1. Fish live in many places around the world. Some species live in saltwater sources, like oceans, and others live in **FRESHWATER** sources like rivers and ponds.
2. Fish do amazing things to help the natural world. Their poop is full of **NUTRIENTS** that help plants grow, which keeps the ecosystem alive and healthy.
3. Some plants also rely on fish to spread their **SEEDS**. This lets new plants grow in different areas, keeping the species alive.
4. Fish can be both **PREDATOR** and prey! This means that they help keep the food chain balanced.
5. It is important that the **FOOD CHAIN** stays balanced as that way there are never too many of one type of plant or animal in an ecosystem.
6. Some animals work together in nature. Small fish sometimes eat **PARASITES** off bigger animals in exchange for safety and protection.

FACT OR FISHY? ANSWERS

The answers below are for the activity on page 15

	SENTENCE	TRUE	FALSE
1	No fish can survive out of water.		FALSE
2	Scientists think ancient fish developed into early amphibians.	TRUE	
3	The scientists who study fish are called fishologists.		FALSE
4	Fish can't breathe underwater.		FALSE
5	Some fish can walk on land.	TRUE	

EXTRA ACTIVITY ANSWERS

Check your answers against the correct answers below!

FIND THE SCIENTIST

The answers below are for the activity on page 18.



SIMPLE SUMS

The answers below are for the activity on page 19.

$$\begin{array}{ccc} \text{fisherman} & + & \text{fisherman} & + & \text{fish} & = & 9 \end{array}$$

$$\begin{array}{ccc} \text{fish} & + & \text{fish} & + & \text{fisherman} & = & 7 \end{array}$$

$$\begin{array}{ccc} \text{fish} & + & \text{fisherman} & - & \text{fisherman} & = & 2 \end{array}$$

$$\begin{array}{ccc} \text{fish} & + & \text{fish} & - & \text{fish} & = & 0 \end{array}$$