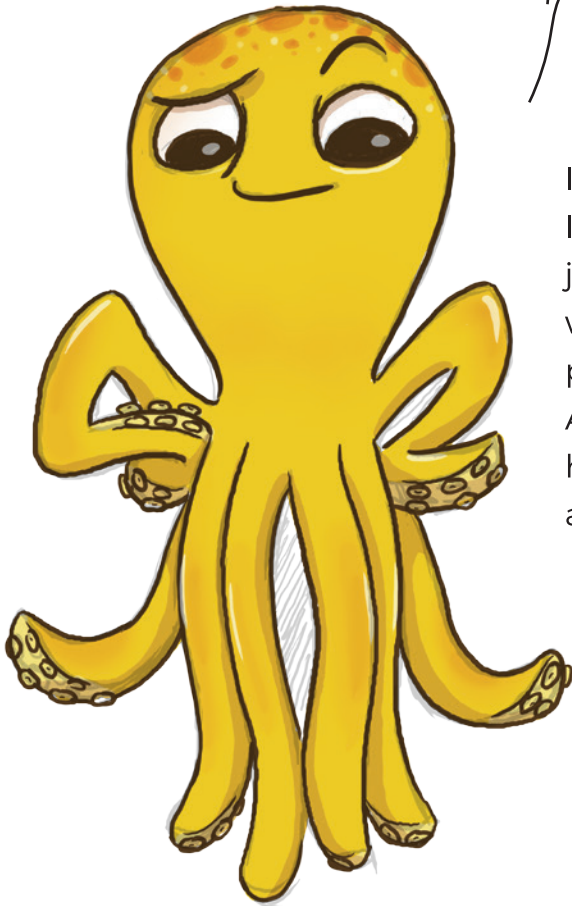# DEEP SEA Spy

With **Okto** the octopus
& **Marjo** the reseacher

Cycle 1

Hi there ! My name's Okto

I'm a **deep sea explorer.**
I'd like to invite you on an extraordinary journey through the deep ocean. Together, we will explore the ocean depths, particularly the hydrothermal vents!
And, most important of all, I will explain how you can help scientists by becoming a deep sea spy yourself...

IDENTITY INFORMATION

Name :	Okto
Group :	Mollusca
Class :	Cephalopoda
Order :	Octopoda
Family :	Octopodoidae
Distinguishing characteristics :	8 tentacles, 2 large eyes, a well-developed brain
Mission :	Deep sea spy
Objectives :	To introduce you to the mysteries of the deep ocean so that you can become a deep sea spy

DEEP SEA EXPLORATION

Where to go to play ?
https://www.deepseaspy.com/

Type the URL address
https://www.deepseaspy.com/
in the navigation bar

Connect with your username
and your teacher's password

Help Marjo to find
and identify the animals

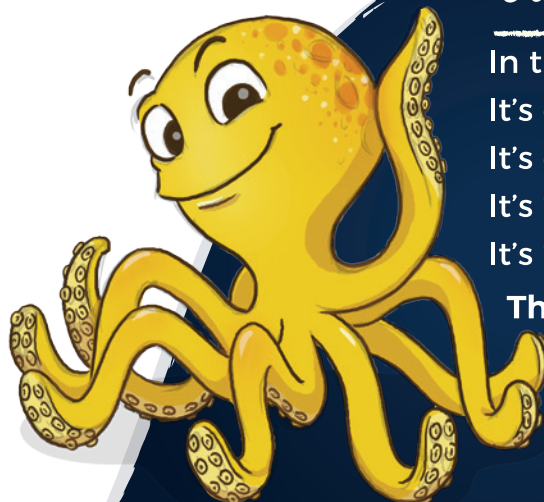Move up the levels
and win virtual figurines

Find some of the answers at
www.deepseaspy.com

Arctic Ocean

Vancouver

Brest

The Azores

Atlantic Ocean

Pacific Ocean

Pacific Ocean

Indian Ocean

Antarctic Ocean

Additional information :

Brest and Vancouver are 7700 km apart. It takes 10 hours by plane to travel between the two.
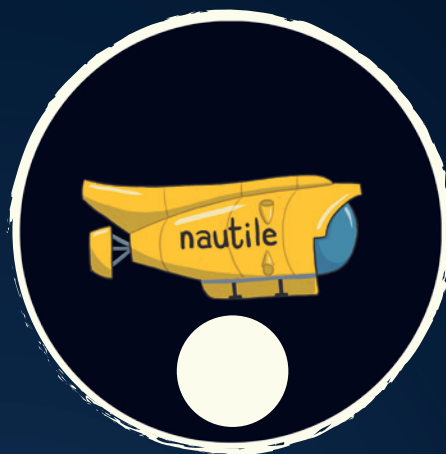
Did you know ?

In the deep ocean
It's dark
It's cold
It's "deep"
It's "hungry"

Théodore Monod

GETTING AROUND UNDER WATER

Help Okto to get around in the deep ocean by finding the right transport.
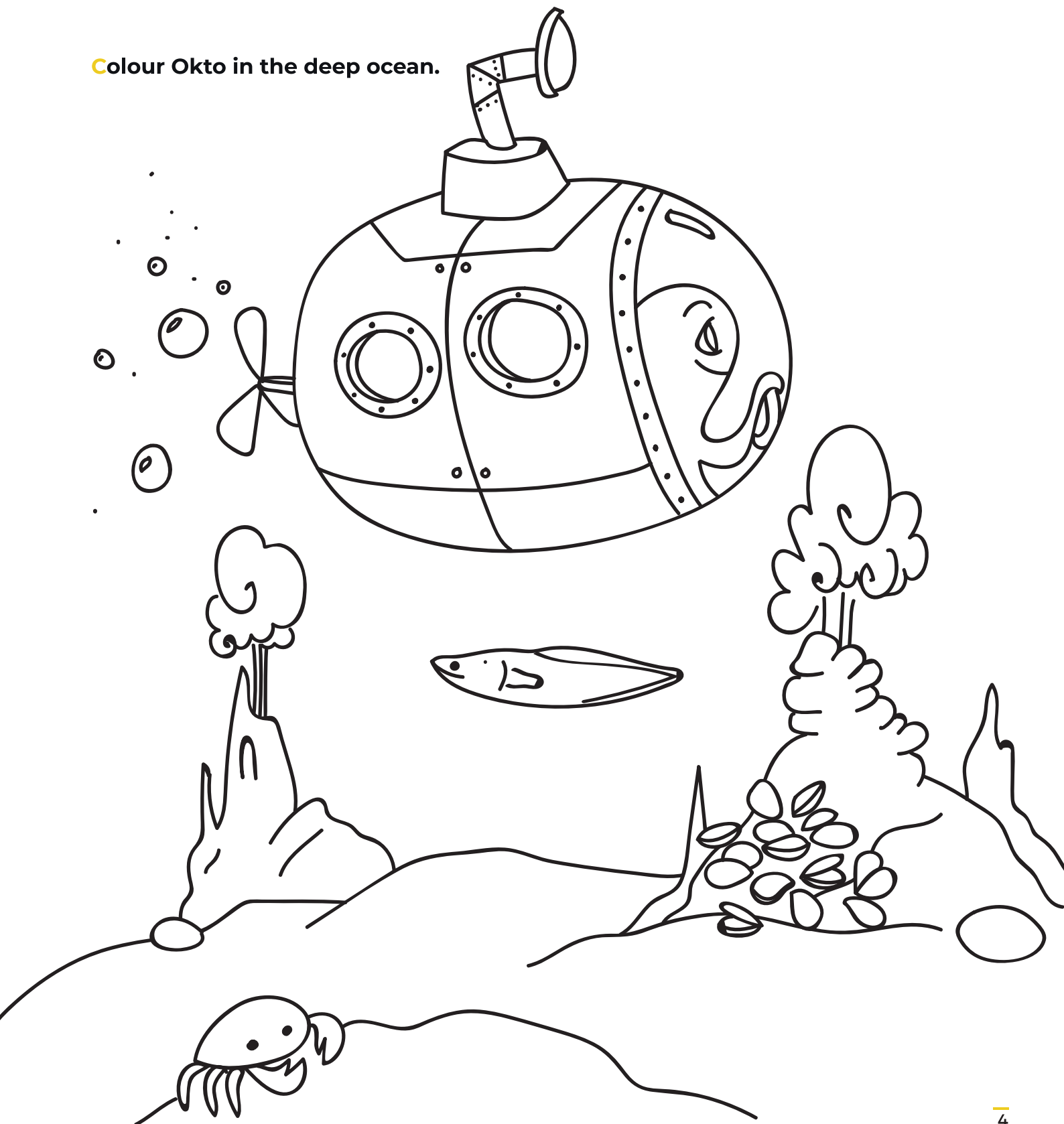
Colour in the circle next to the form of transport Okto can use to explore the deep ocean.
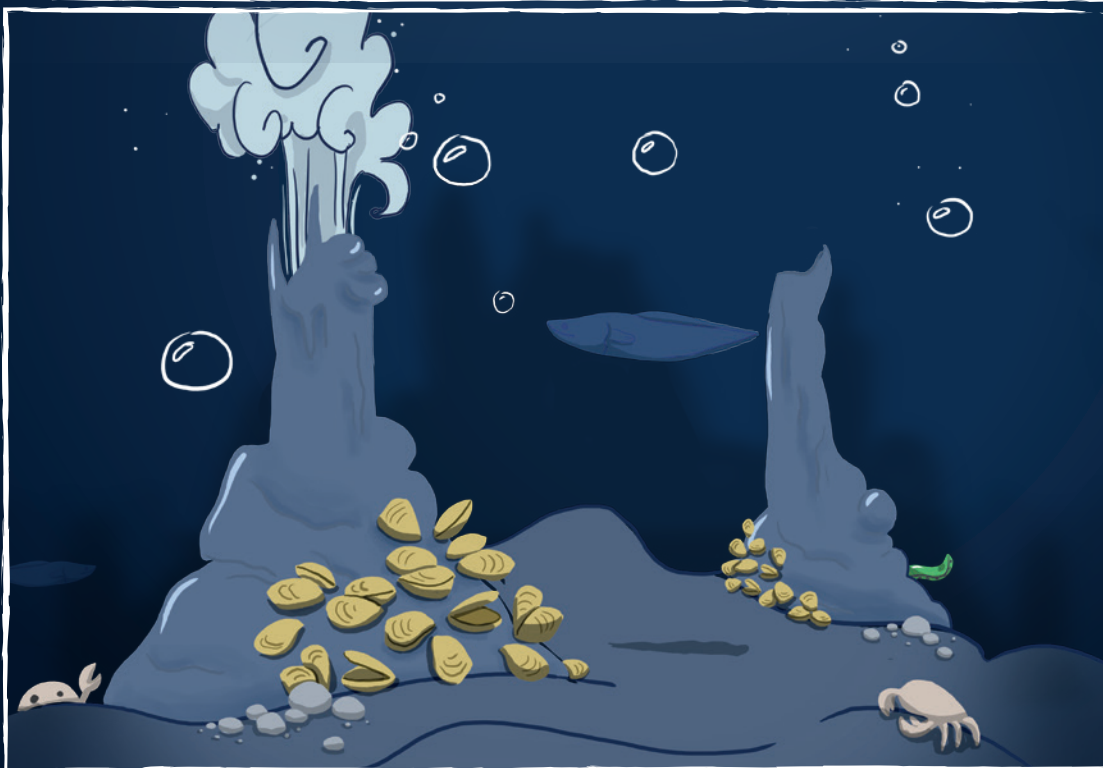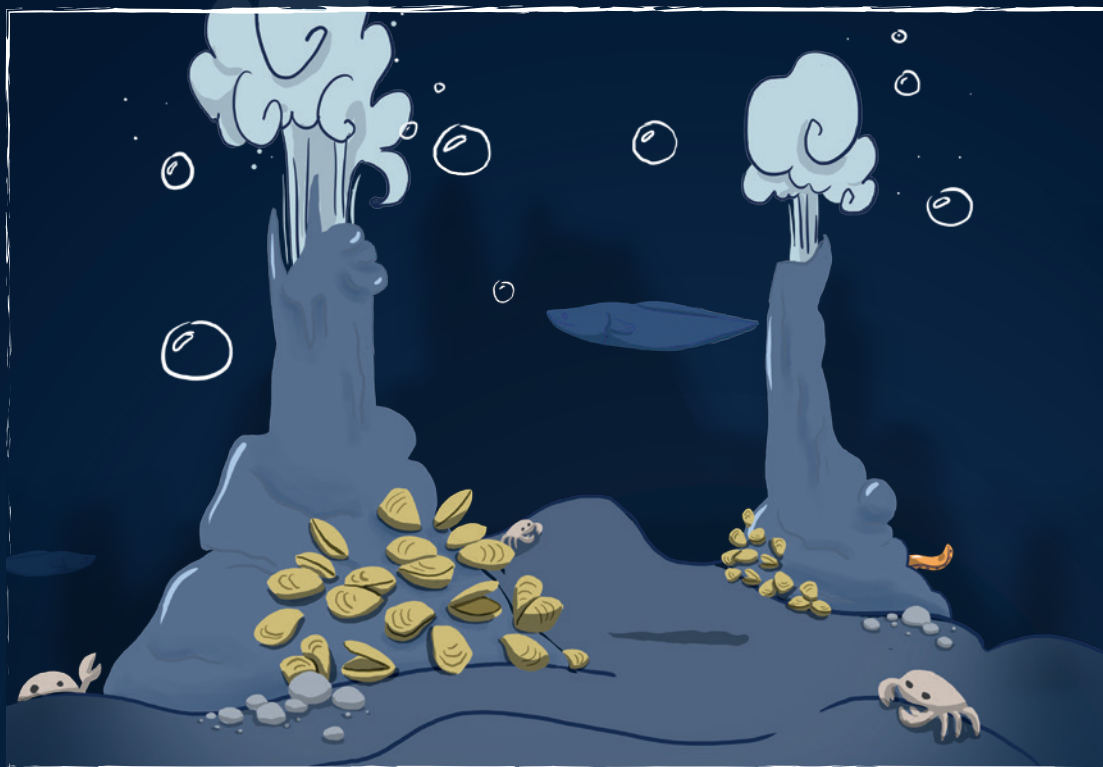
EXPLORING THE DEEP OCEAN

Colour Okto in the deep ocean.

HYDROTHERMAL VENTS

Find the six differences between the two mussel beds.

DEEP SEA SPY

THE ANIMAL COMMUNITY
Deep sea animals

SEGONZACIA CRAB

POLYNOID SCALE WORM

MIROCARIS SHRIMP

BUCCINID SNAIL

ZOARCID FISH

RIDGEIA TUBE WORM

THE ANIMAL COMMUNITY

Who are Okto's three friends?

Replace the numbers by the corresponding letters using the code.

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
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26

26	15	1	18	3	9	4

6	9	19	8
F	I		

18	9	4	7	5	9	1

20	21	2	5

23	15	18	13
W	O		

2	21	3	3	9	14	9	4

19	14	1	9	12
S	N			

DEEP SEA SPECIES
The crab *Segonzacia mesatlantica*

Help the crab to find his way home.

DEEP SEA ANIMALS
Segonzacia **Crab,** *Mirocaris* **shrimp, zoarcid fish, polynoid scale worm, buccinid snail,** *Ridgeia* **tube worm**

Help our scientist, Okto, identify these animals.
Match each animal with its silhouette by colouring in the pairs of squares with the same colour.
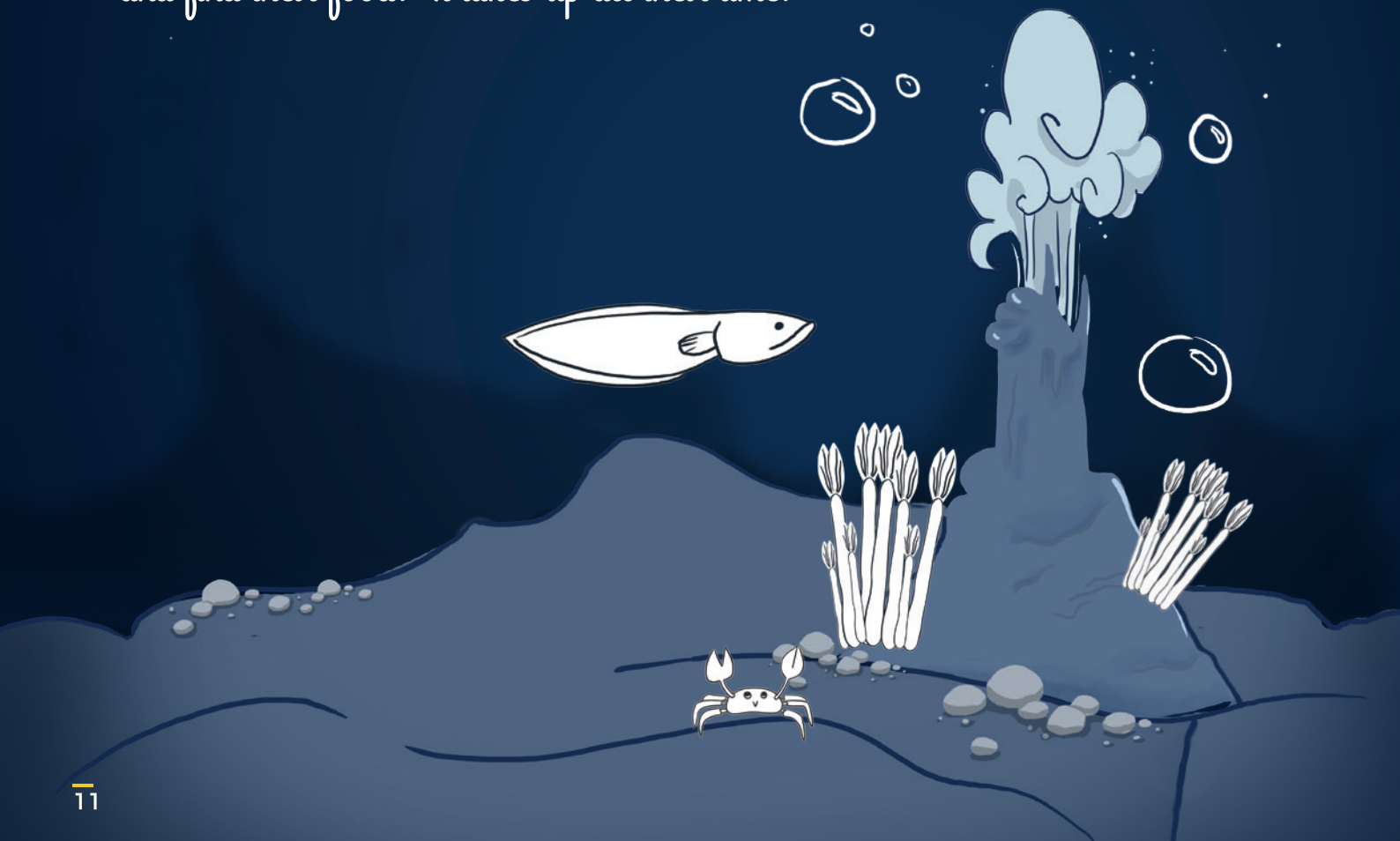
ZOZO, THE ZOARCID, GOES LOOKING FOR FOOD

Colour in the animals that appear in the story

Zozo the zoarcid fish lives at the bottom of the ocean, close to the hydrothermal vents. It's cold all around, so he stays here because his home is kept warm by a little current of warm water coming up through the rock. It's very comfortable. It's good living here in his little clump of Ridgeia worms. He has plenty of neighbours here while, all around, the deep ocean is almost a desert.

One morning, he goes out to find something to eat. Zozo meets his friend the buccinid snail. He's going to the market too. Further on, he asks Riri the worm if he has any ideas about what to have for dinner. But the worm doesn't need to go out to collect his food, which is handy because he can't move from the rock he's stuck on. "I've got bacteria inside my body that do the work for me! I give them energy and oxygen and they make my dinner! A real little kitchen!" How lucky! While all the other inhabitants, including the zoarcid fish, have to hunt and find their food! It takes up all their time!
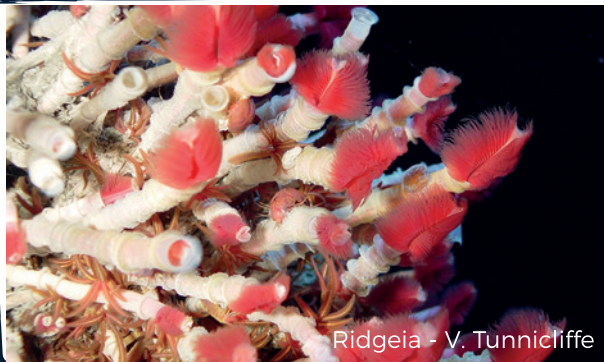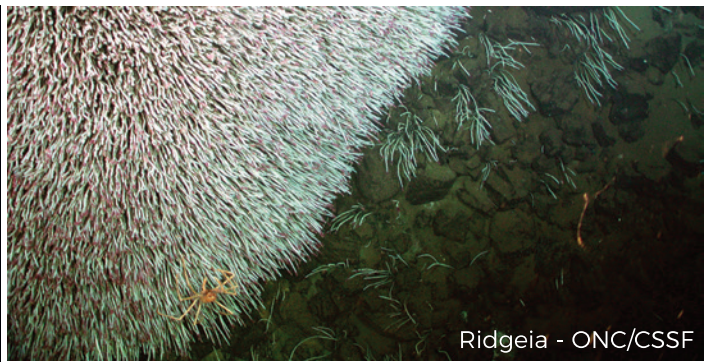
FIND OUT MORE

The submarines are lowered into the water from ships.

The worm *Ridgeia piscesae* lives in a tube allowing it to protect itself. It has no mouth, no digestive tube and no anus. Its body is like a big bag with bacteria living inside that feed it.

Ridgeia - V. Tunnicliffe

Ridgeia - ONC/CSSF

The pycnogonid, or sea spider, a close cousin of our spiders, which lives in groups in clumps of *Ridgeia* worms.
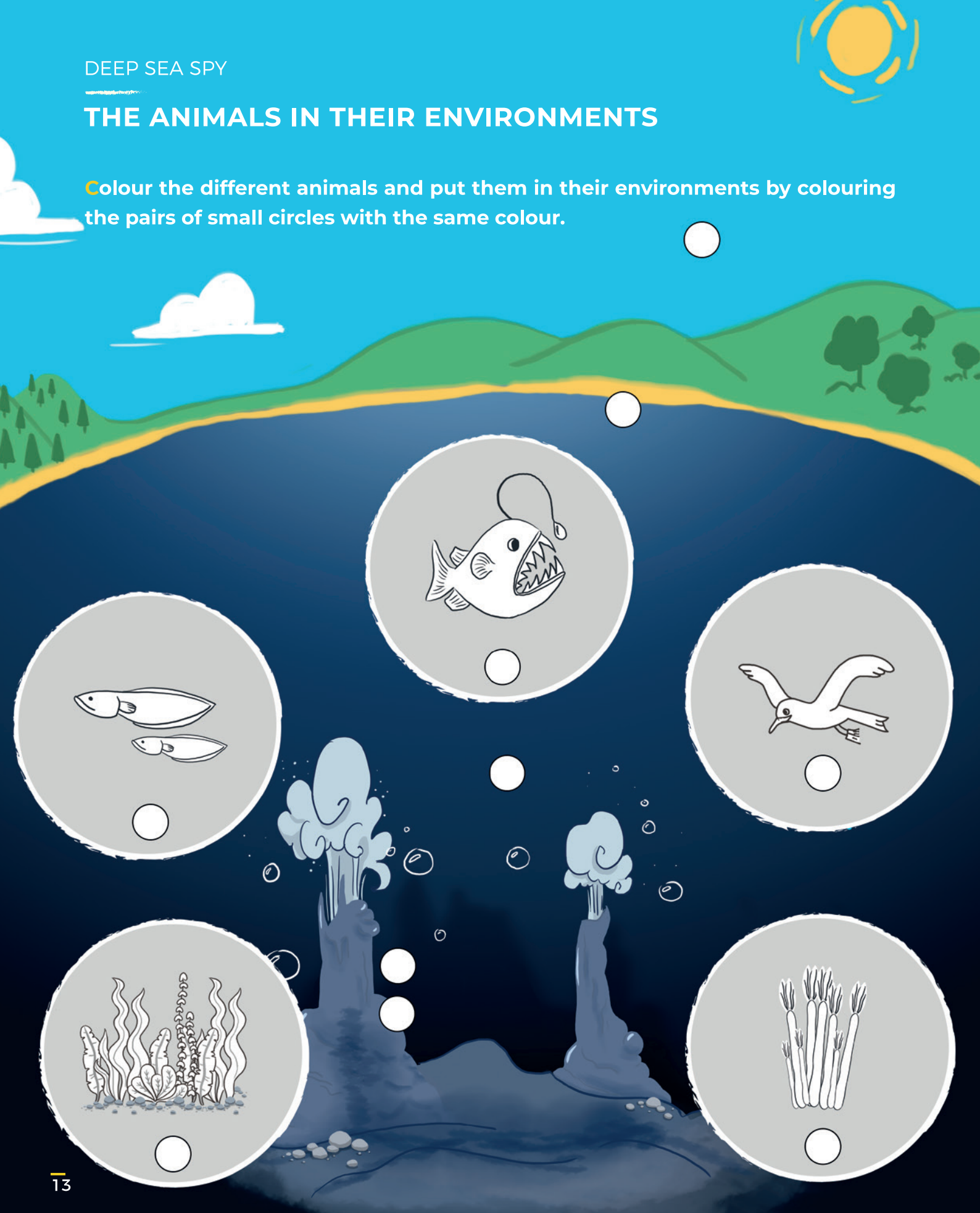

Did you know ?

It's the dads who look after the babies!

THE ANIMALS IN THEIR ENVIRONMENTS

Colour the different animals and put them in their environments by colouring the pairs of small circles with the same colour.

DEEP SEA Spy

Océanopolis Brest

plus
ENVRI

Ifremer

emso
ERIC
EUROPEAN RESEARCH INFRASTRUCTURE CONSORTIUM

OCEAN NETWORKS CANADA

www.deepseaspy.com