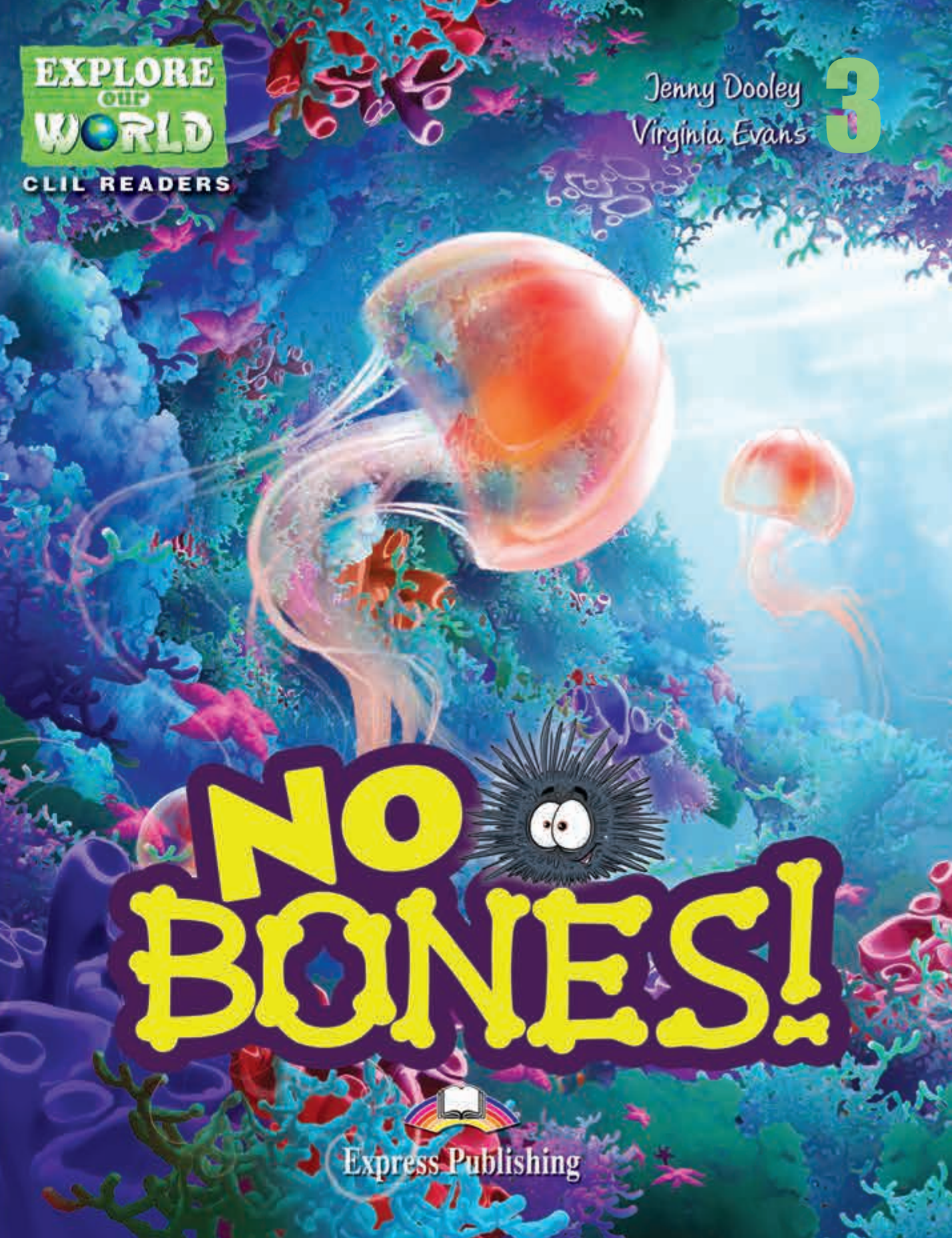


EXPLORE
OUR
WORLD

CLIL READERS

Jenny Dooley
Virginia Evans

3



NO BONES!



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3

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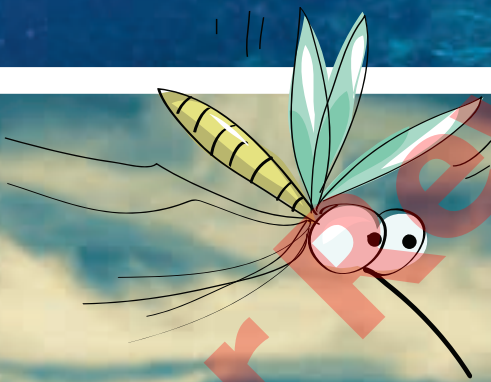
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Jenny Dooley – Virginia Evans



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LET'S START!



An invertebrate is an animal that hasn't got a backbone or spine. Most of the world's animals are invertebrates. There are millions of them on our planet. In fact, there are so many of them that we do not know the exact number!

Look at these invertebrates.
What animals are they?
Where do they live?
In the water or on land?

Let's take a closer look at
this very large number of
interesting animals!



1

LOOKING AT INVERTEBRATES



When you think of animals, you probably think of mammals, birds, reptiles, amphibians or fish. All these animals are **vertebrates** – that is, they have all got backbones. Vertebrates make up only about 5% of the animal kingdom. That means that about 95% of the world's animals are **invertebrates**!

Invertebrates haven't got an internal skeleton made of bone. Many invertebrates like jellyfish or worms have got a body

VERTEBRATES -
BACKBONE



fish



birds



mammals



amphibians



reptiles

full of liquid. Others, like insects and crabs, have got a hard outer shell. Invertebrates come in all shapes, sizes and colours!

There are many different types of invertebrates with a wide variety of characteristics. However, there are two things that invertebrates have got in common. They haven't got a backbone and they are cold-blooded, which means they can't control their own temperature.

Invertebrates can be put into different groups. The groups are: **echinoderms**, **cnidarians**, **sponges**, **arthropods**, **molluscs** and **worms**.



The largest invertebrate is the colossal squid. It can grow to over 12 metres long and weigh over 450 kilos!

READ
MORE

The Legend of Arachne



Long ago in ancient Greece, in a village close to Mount Olympus, there lived a beautiful young woman. Her name was Arachne and she loved making tapestries.



Her tapestries were so amazing that everyone came to look at them in wonder!



But Arachne was very proud of her own talent and told everyone who would listen how good she was, "I am so good at making tapestries that not even Athena, the goddess of wisdom, could do better!"



Athena heard about what Arachne was saying and became very angry! She decided to visit her, dressed as an old woman. "You must be careful what you say," she told Arachne, "Or you will make Athena really angry!"



But Arachne did not want to listen to the old woman. "Ha!" she said "Then let me meet Athena. We can have a contest and see who is the best!"



At that moment, Athena threw off her cloak, much to Arachne's surprise. "Let the contest begin then!" shouted Athena.

1

LOOKING AT INVERTEBRATES

1 Look, read and choose.

1



- a amphibian
- b reptile

3



- a fish
- b sponge

5



- a mammal
- b worm

2



- a skeleton
- b shell

4

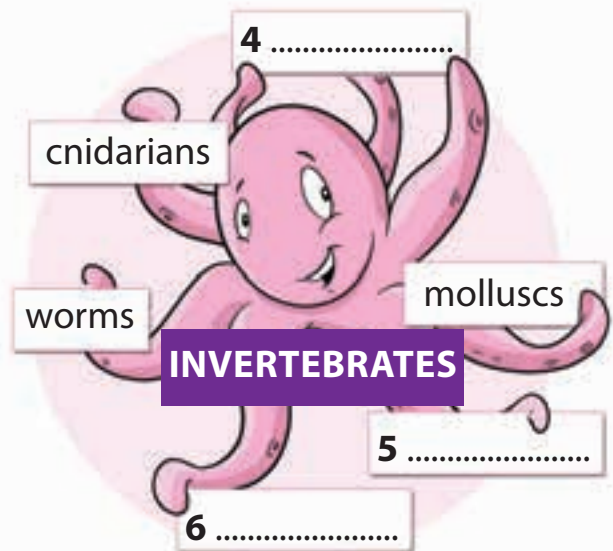
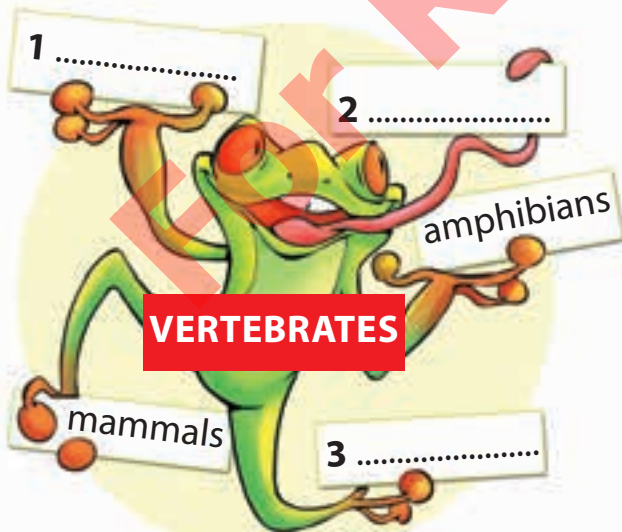


- a squid
- b jellyfish



- a weigh
- b grow

2 Complete the spidergrams.





3 Read and circle.

- 1 All **vertebrates** / **invertebrates** have got backbones.
- 2 Jellyfish are **vertebrates** / **invertebrates**.
- 3 **Vertebrates** / **Invertebrates** are cold-blooded.
- 4 Five percent of the world's animals are **vertebrates** / **invertebrates**.
- 5 Birds are **vertebrates** / **invertebrates**.
- 6 Worms are **vertebrates** / **invertebrates**.
- 7 The largest **vertebrate** / **invertebrate** is the colossal squid.
- 8 Some **vertebrates** / **invertebrates** have got a body of liquid.



- 4 **OVER TO YOU:** @ Complete the chart below with the animals from the list. Use the Internet to help you.

frog

fish

jellyfish

crab

worm

crocodile

Animal	Vertebrate/Invertebrate	Characteristic
1 frog	vertebrate	It has got a big mouth.
2		
3		
4		
5		
6		