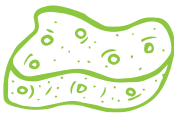


3

IS A SPONGE AN ANIMAL?



1 Decide whether the animals are *vertebrates* or *invertebrates*.

a

b

c

d

e

2 Write sentences about how these animals breathe.

a

giraffe

Giraffes breathe with

their lungs.

b

tadpole

c

trout

d

frog

e

rhinoceros



3 Use the words and the pictures to write sentences about bird nutrition.



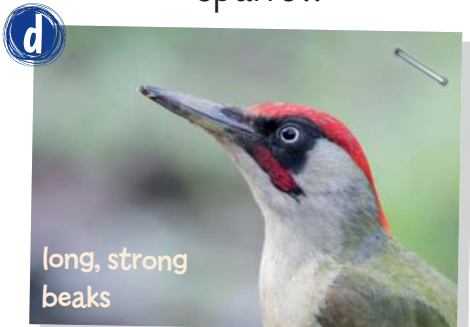
sparrow



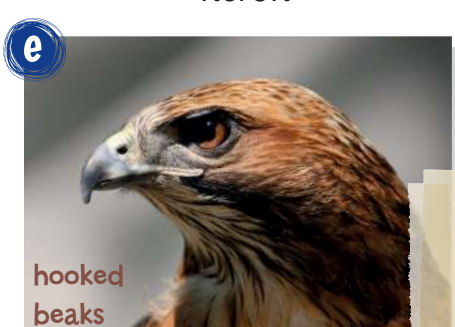
heron



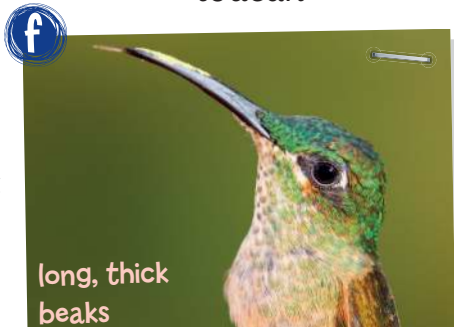
toucan



woodpecker



hawk

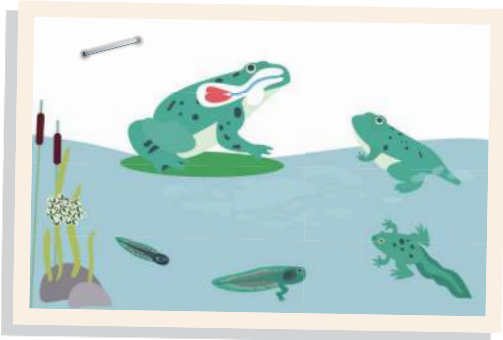
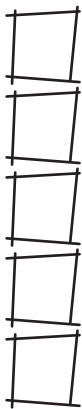


hummingbird

- a Sparrows have cone-shaped beaks for eating seeds.
- b
- c
- d
- e
- f

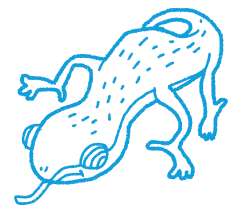
4 Order the stages of metamorphosis from 1–5.

- a A tadpole emerges from each egg.
- b Finally, it leaves the water.
- c An adult female frog lays her eggs in the water.
- d Its legs get stronger and its tail reduces in size.
- e The tadpole develops back and front legs.



5 Match to make true sentences about respiration.

- a Adult amphibians
- b Birds
- c Fish
- d Mammals
- e Reptiles
- f Young amphibians



- breathe using lungs.
- breathe using gills.
- breathe through their skin.

6 Look and read. Choose the correct words and write them on the lines. There is one example.

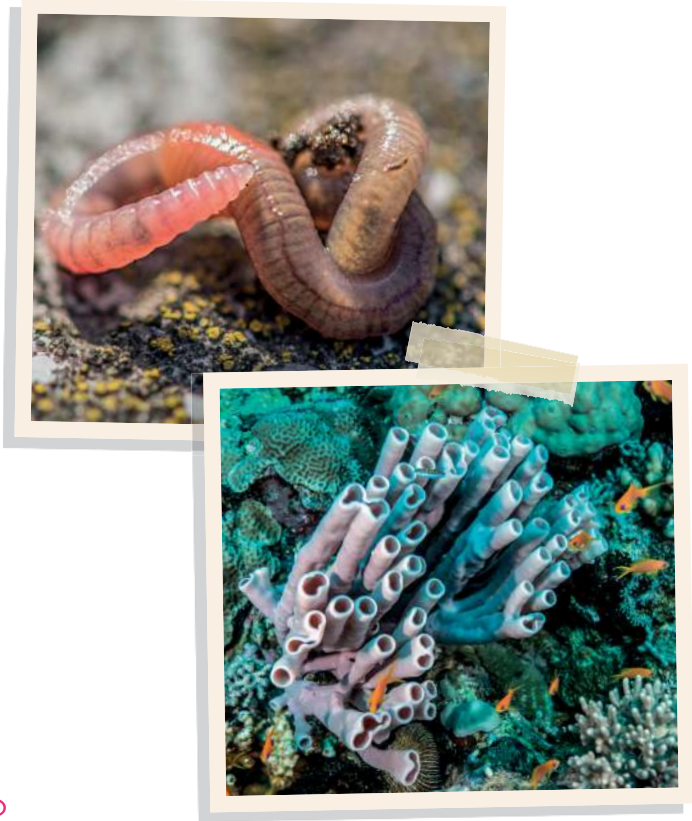
amphibians
caterpillar
eagle
filament
hatch
iguana

- a These mammals lay eggs. monotremes
- b These birds have long, thick beaks for eating fruit. _____
- c Most birds build these things to protect their eggs from predators. _____
- d This is what we call it when birds sit on their eggs to keep them warm. _____
- e This is what we call it when a chick breaks through its egg. _____
- f This reptile is a herbivore. _____
- g Members of this vertebrate group have a long, sticky tongue. _____
- h This part of a fish's gills absorbs oxygen. _____

incubate
jaws
~~monotremes~~
nests
oviparous
toucans

7 Find the six main invertebrate groups in the wordsearch.

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



8 Classify the arthropod characteristics below. You may use some words twice.

~~largest group~~ ten legs eight legs no antennae
front legs are claws no wings one pair of antennae
six legs some have wings three body sections
two body sections two pairs of antennae

Insects	Crustaceans	Arachnids
largest group		



9 Write ticks to complete the table.

	Abdomen	Head	Thorax	Cephalothorax
Crustaceans	✓			
Arachnids				
Insects				

10 Use the words in the box to complete the sentences.

foot head internal rings shell valves



- a Almost all molluscs have a _____ .
- b Gastropods have a large muscular _____ that helps them move.
- c Cephalopods have an _____ shell and a prominent _____ .
- d The shell of a bivalve is divided into two _____ .
- e An annelid’s body is long and soft, and made up of _____ .



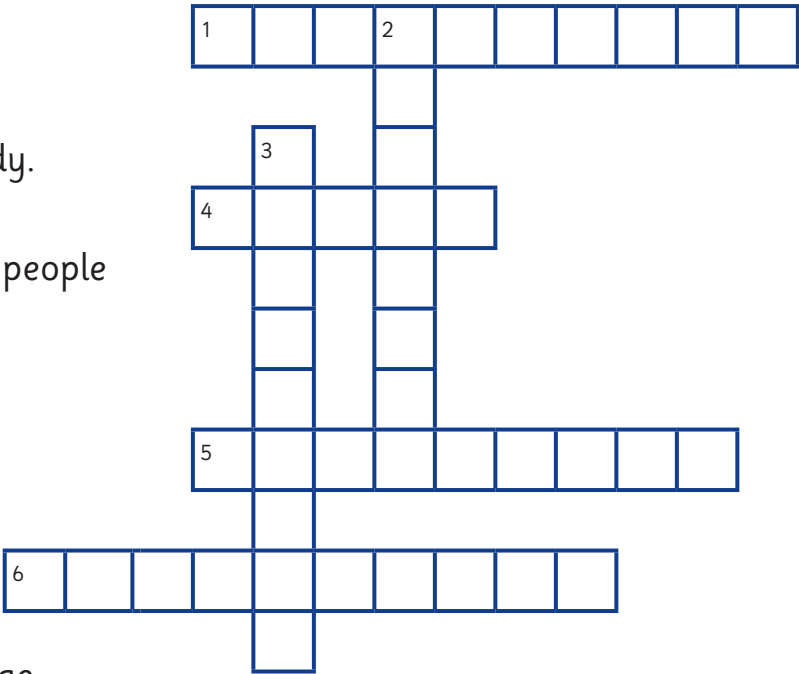
11 Complete the crossword using words from the unit.

ACROSS

- 1 The name of this invertebrate means ‘prickly skin’.
- 4 Sponges have these on their body. Water passes through them.
- 5 This cnidarian sometimes stings people swimming in the sea.
- 6 These invertebrates have venomous tentacles.

DOWN

- 2 This is the type of shell a cephalopod has.
- 3 This is another name for a sponge.





12 Jonathan is talking to his uncle Paul, who is an entomologist. Jonathan is studying arthropods and has some questions.



Read the conversation and choose the best answers.
Write a number (1–8) for each answer. There is one example.

Example


 **Jonathan:** What do entomologists do?

 **Paul:** 8





Questions


- a


 **Jonathan:** So, you only know about insects?


 **Paul:** _____
- b


 **Jonathan:** Oh good! You can help me. I have some questions.

 **Paul:** _____
- c


 **Jonathan:** My teacher says spiders are not insects. Is it true?

 **Paul:** _____
- d

 **Jonathan:** But look at these pictures. Their bodies look so similar!

 **Paul:** _____
- e

 **Jonathan:** Wow, you're right. But their legs are the same.

 **Paul:** _____

Answer box

- 1 That's right, they are arachnids.
- 2 Molluscs have tentacles, not antennae.
- 3 Insects are my speciality, but I know a lot about other invertebrates as well.
- 4 No, they aren't. Arachnids have eight, but insects only have six.
- 5 Most crustaceans live in the water.
- 6 Ask me whatever you want.
- 7 Look more closely. Arachnids have two body sections, but insects have three.
- 8 Entomologists study insects.