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What do you call a dinosaur that's a noisy sleeper?



## BOREDOM-BUSTER PUZZLE ACTIVITY BOOK OF

# DARING & DEADLY DINOSAURS



#### THE AGE OF DINOSAURS

Millions of years ago, before humans made their mark on the world, a diverse group of reptiles dominated prehistoric earth: dinosaurs.

Dinosaurs were animals that lived during the Mesozoic era of Earth's history – from 250–65 million years ago. They were reptiles, a group of animals which today includes lizards, snakes and crocodiles.



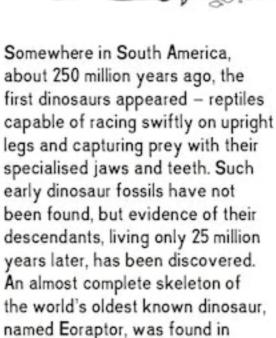


The Cretaceous Period was around 145-65 million years ago.
During this era, the continents started to form the shapes we recognise today.
The South Atlantic opened up and was soon followed by the North Atlantic.

The Triassic Period was around 250–205 million years ago. At that time, all the continents were joined together in a single supercontinent called Pangea. Inland, the climate was very dry.



Dinosaurs were not the first reptiles. The remains of the earliest known reptile were found in Scotland in 1989; it lived about 335 million years ago. Dinosaurs were suited to a land-based life because their legs, positioned under their bodies like our own, were good for carrying weight, for hunting and for running.



Argentina in 1991.



#### FROM BIG TO SMALL

Dinosaurs came in many different shapes and sizes, from the huge brachiosaurus to the chicken-sized Lesothosaurus. Plant-eating dinosaurs, called herbivores, could reach enormous sizes to deter and escape the meat-eating dinosaurs who hunted them, called carnivores.

DINO FACT
Animals that eat both meat and plants are called omnivores.

We can learn more about dinosaur sizes and species by studying their fossils. Fossils are the remains of animals or plants that died long ago. Over millions of years these remains have slowly turned into stone – they have fossilised.

Diplodocus lived in the late Jurassic period, 155 to 145 million years ago. They ate vegetation, and had long necks so they could reach leaves and plants in the treetops.

A full-grown diplodocus could be up to 26 metres long, and weighed as much as a large truck.

> Stegosaurus was a herbivore that lived in the Jurassic period in North America. The plates and spines along a stegosaurus's body were actually a special type of bone. Their tail spikes could reach over 90 centimetres in length!

#### FLYING REPTILES

Dinosaurs did not have the ability to fly, but a group of reptile relatives who lived alongside them during the Mesozoic era (252–66 million years ago) did. Pterosaurs had strong, flexible wings made of skin that allowed them to soar through the sky millions of years before bats or birds.

Pteranodon was one of the largest pterosaurs, with a wingspan of around 7 metres. This huge flying reptile cruised over the ocean, and scooped up fish in its toothless jaws.

Pteranodon fossils have been found in Europe and North America.

As the first vetebrates to evolve flight, these remarkable animals could travel long distances, fly away from predators and swoop down to seize prey. Pterosaurs can vary greatly in appearance, but they are all identifiable by their long necks and the crests on their heads.

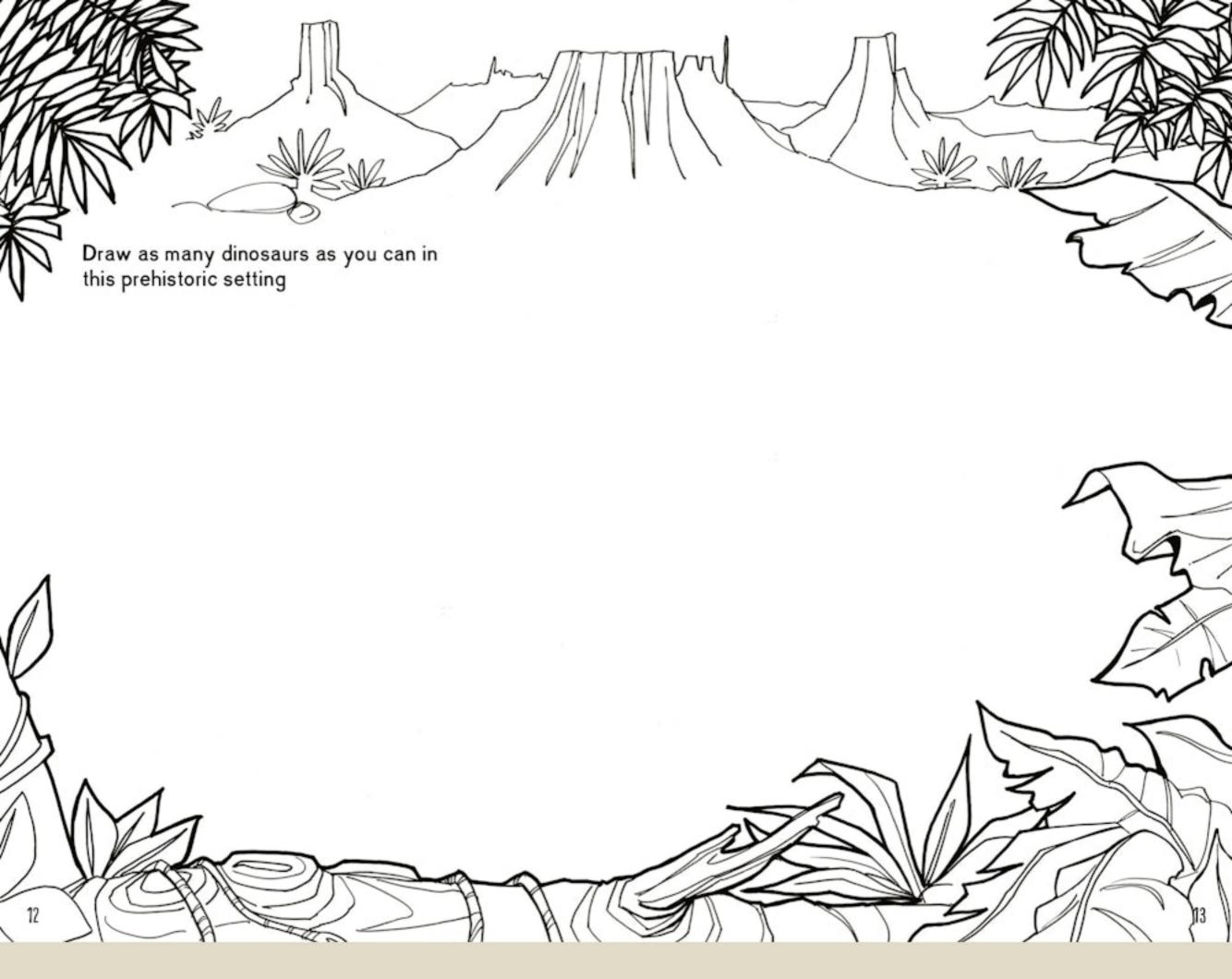
DINO FACT Dinosaurs lived in an age called 'Mesozoic', meaning 'middle life'.

#### DID DINOSAURS HAVE FEATHERS?

Newly-discovered fossils in China show that some small, early dinosaurs had feathers. The bones of these meateating dinosaurs were hollow and light, like birds' bones.



Design and colour in your own pterosaurs wings by completing this dino image!



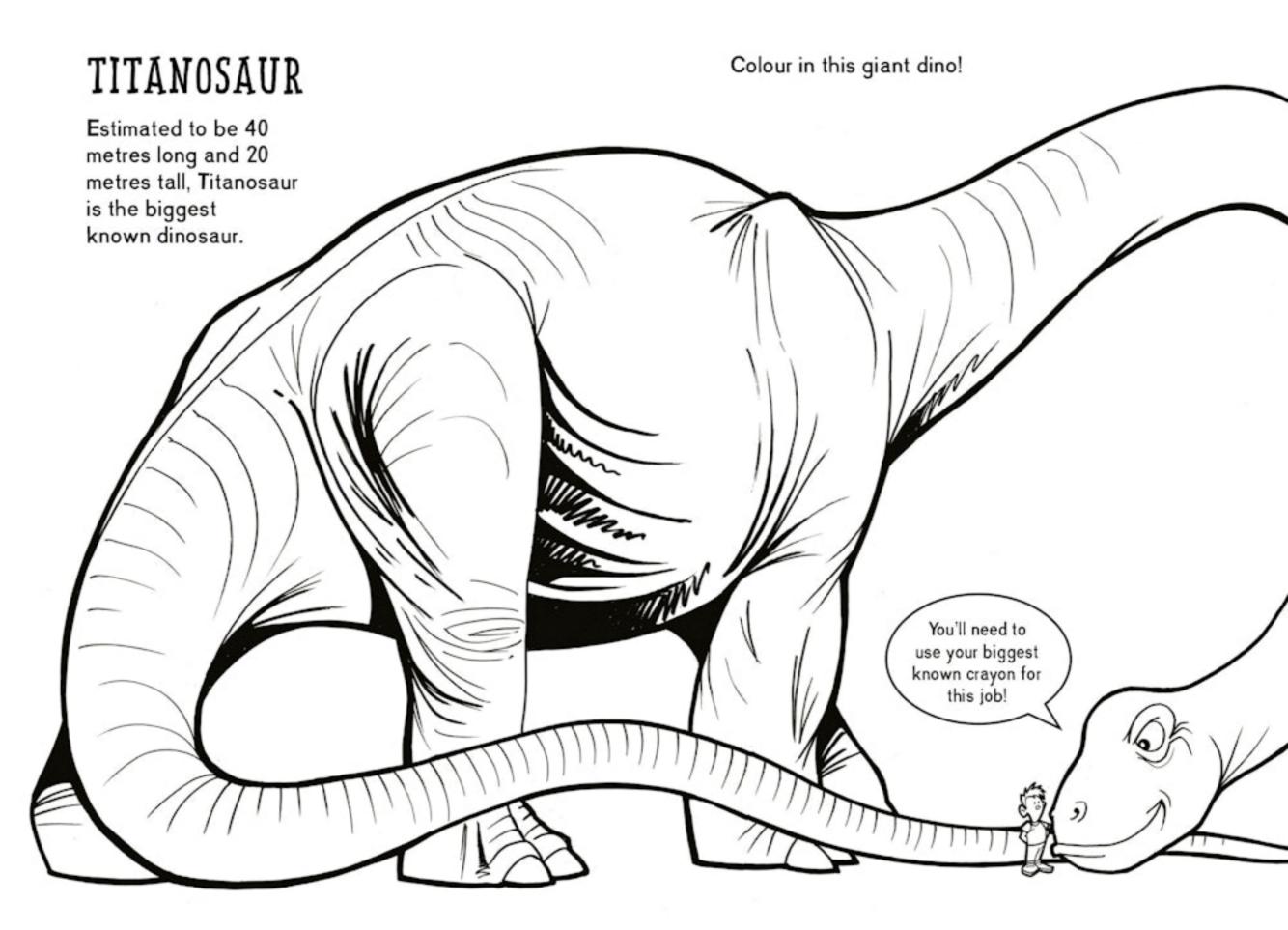
# BRACHIOSAURUS How many words (of three letters or more) can you make from BRACHIOSAURUS?

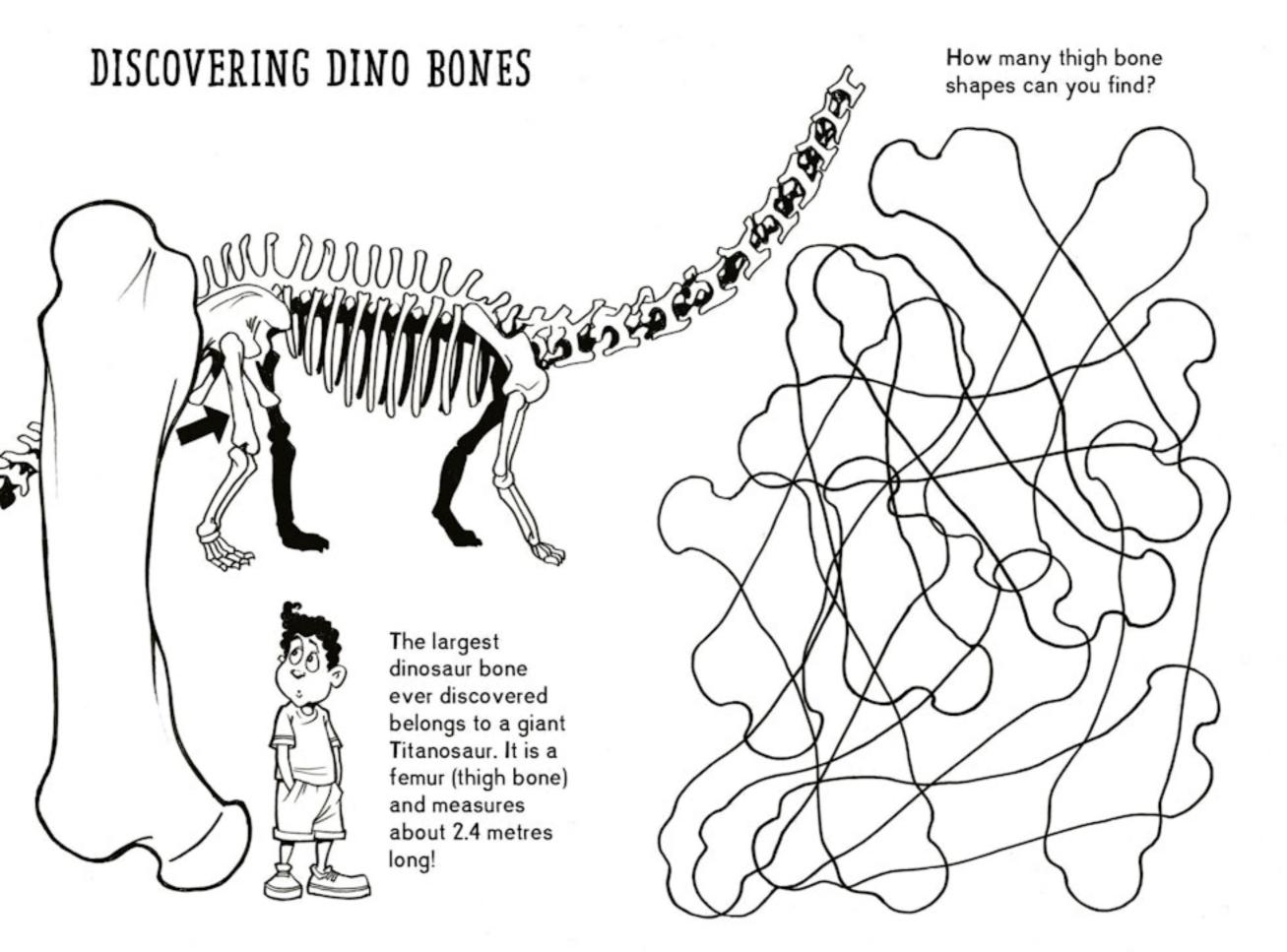
#### SPOT THE 8 DIFFERENCES

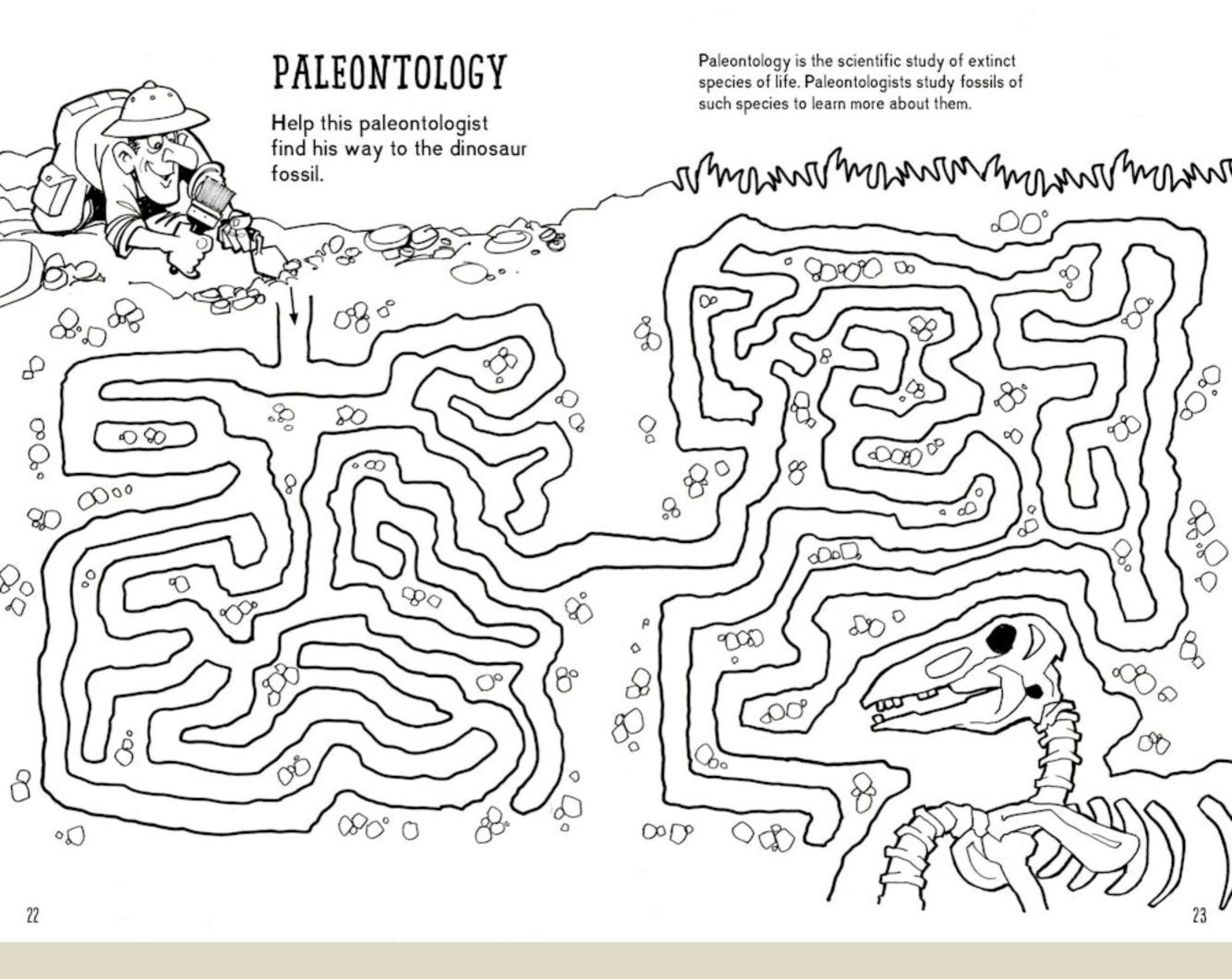
Like most dinosaurs, Tyrannosaurus rex's teeth were replaceable. When teeth were lost or broken from fighting or eating, new teeth grew in to replace them.







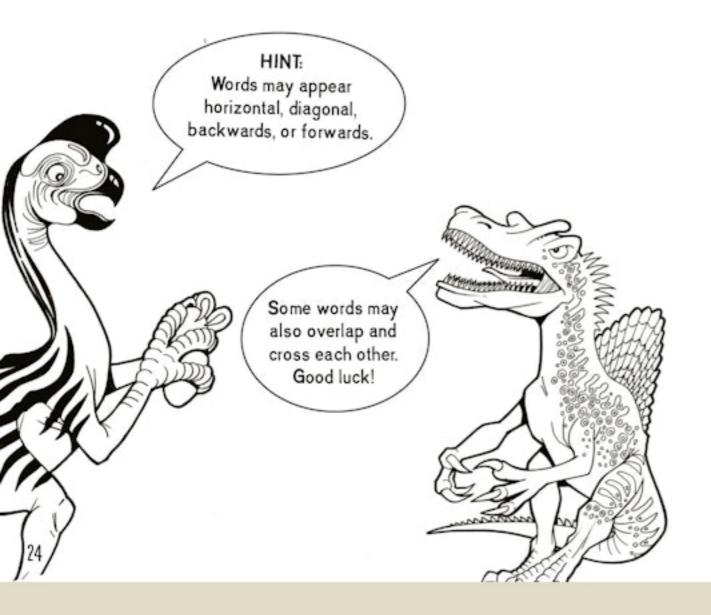




#### DINO WORDSEARCH

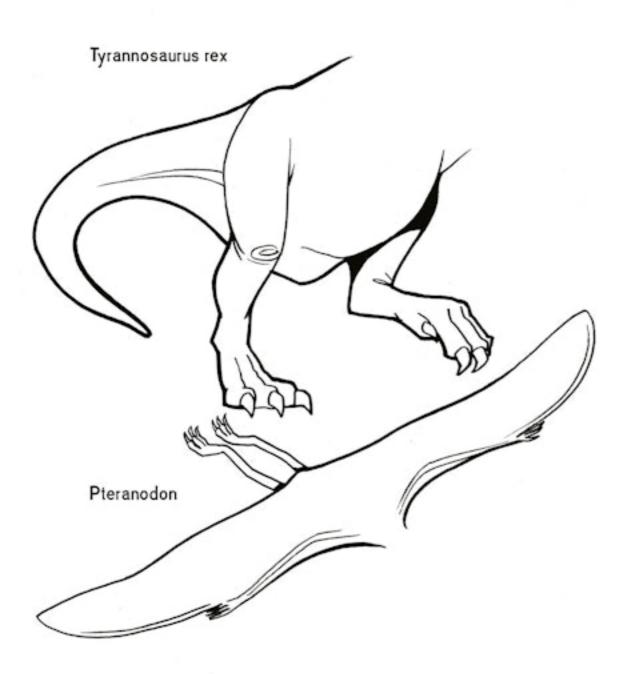
Can you find all twelve dinosaur words hidden on the next page?

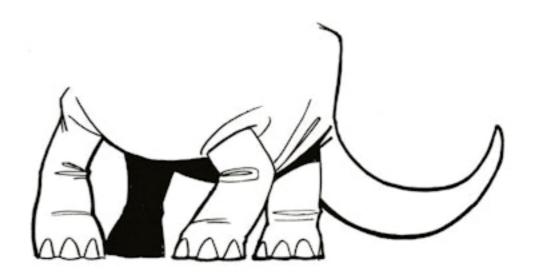
BONES CRETACEOUS FOSSILS HERBIVORE GIGANTOSAURUS MESOZOIC PALEONTOLOGIST TITANOSAUR REPTILES TRODOON TREX TRICERATOPS

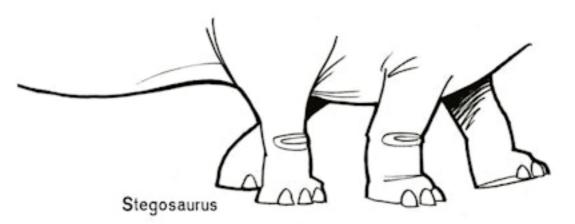


S	R	S	F	Н	1	Υ	Н	С	Е	J	٧	S	D
W	R	٧	Χ	0	U	D	0	U	K	В	٧	G	D
Z	В	В	S	U	S	Н	T	М	K	L	Х	Z	Р
Α	Е	М	Р	L	W	S	R	S	G	F	С	U	Α
K	S	Е	N	0	В	М	1	Т	D	N	R	Х	L
J	В	S	S	Е	D	R	С	L	Χ	1	Е	Α	Е
X	L	0	W	G	S	F	Е	J	S	Р	T	S	0
K	J	Z	Н	С	В	T	R	S	W	S	Α	Р	N
Н	T	1	Е	Α	G	Р	Α	U	٧	R	С	S	T
R	R	С	S	R	٧	Н	T	S	Р	Z	Е	N	0
Q	0	С	F	N	J	٧	0	Р	L	Υ	0	0	L
W	0	Н	G	1	Q	W	Р	Р	1	٧	U	Z	0
Р	D	K	J	٧	F	D	S	R	T	S	S	G	G
٧	0	G	U	0	S	R	I	Υ	T	R	G	С	1
J	N	Р	0	R	1	T	N	С	Α	R	0	U	S
W	R	G	Н	Е	R	В	1	٧	0	R	Е	Н	T
Р	Н	W	F	T	Χ	R	S	J	R	U	Р	Χ	J
٧	G	1	G	Α	N	T	0	S	Α	U	R	U	S
Н	Χ	Н	S	W	R	Q	Υ	R	S	Z	S	U	Е
W	Р	S	N	Р	1	R	Е	Р	T	1	L	Е	S

## FINISH DRAWING IN THESE DINOSAURS



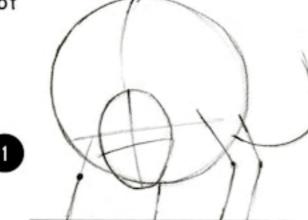




#### ANKYLOSAURUS

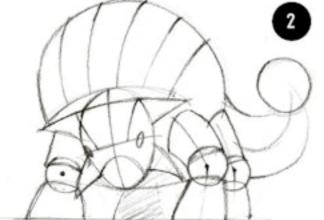
These dinosaurs had an armoured body made of pieces of bone growing within the skin. A large club at the end of its tail could break the bones of any attacker.

Start by drawing a large circle for the ankylosaurus's body, an oval for its head and construction lines to position its legs and tail.

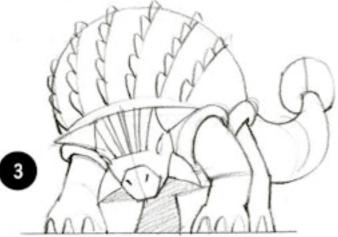


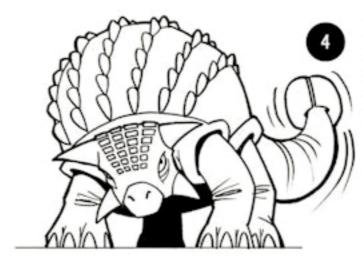
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Draw in the ankylosaurus's head spikes. Sketch in cylinder shapes for its legs and ridge lines on its back. Add a ball to the end of its tail.



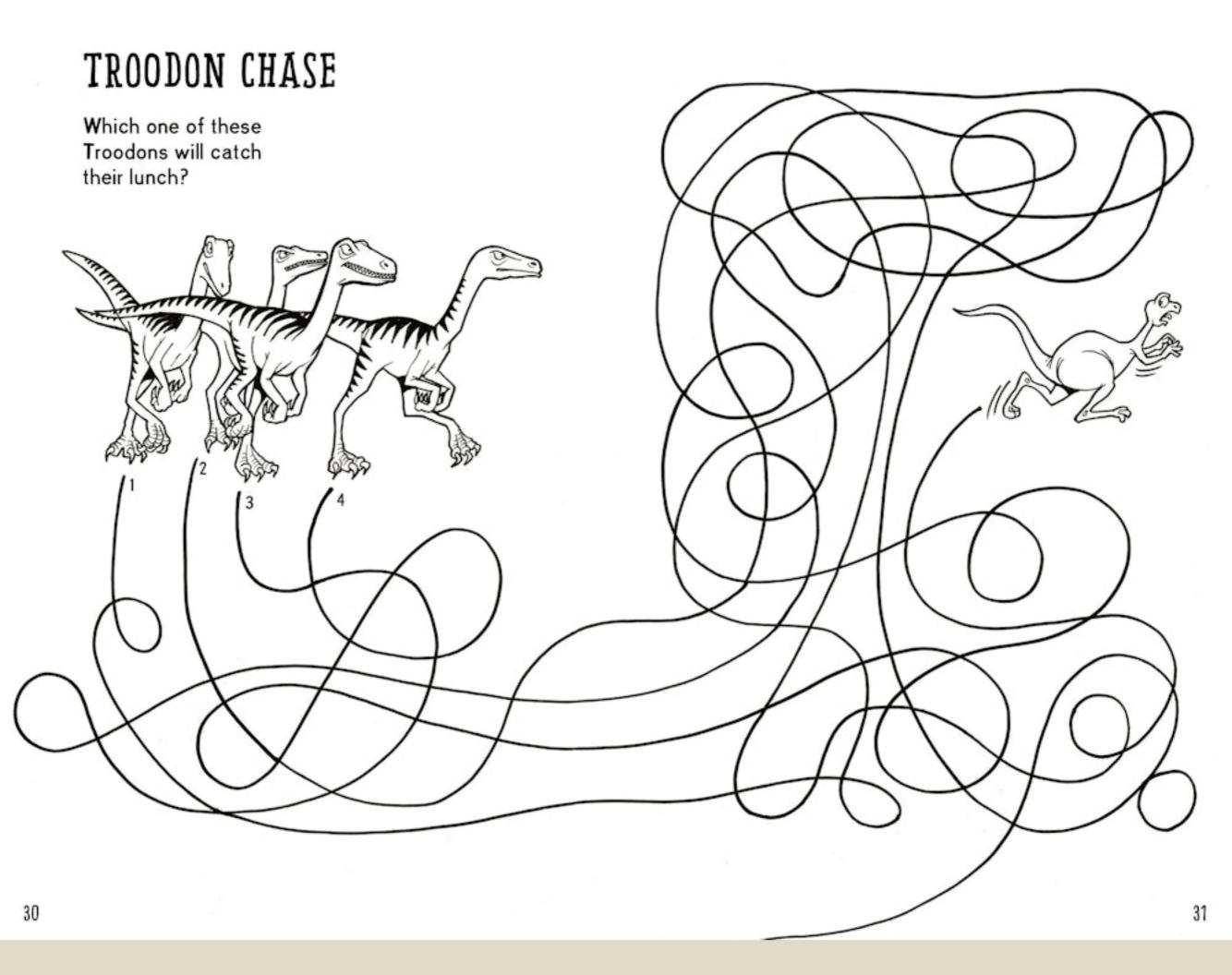
Draw in jagged ridges on the ankylosaurus's back. Add more details, like the bony shapes on its skull, its eyes, snout and feet.



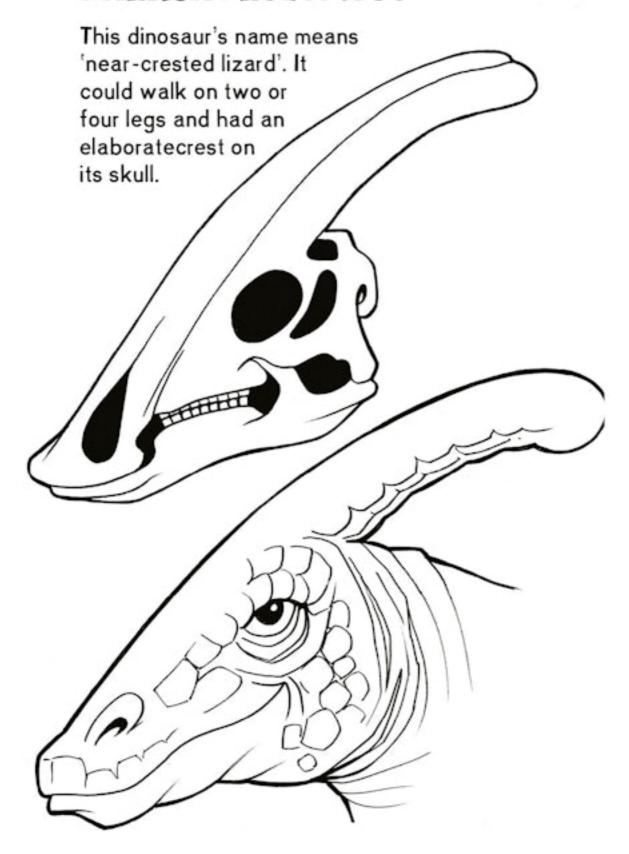


Add all final details and colour in the ankylosaurus. Motion lines either side of the tail will give an impression of movement.

> Use this space for your drawing.



#### PARASAUROLOPHUS





Which skull silhouette matches the skull on the opposite page?

#### DRAW THESE DINOSAUR HEADS

Draw in the main head shapes, then add details.

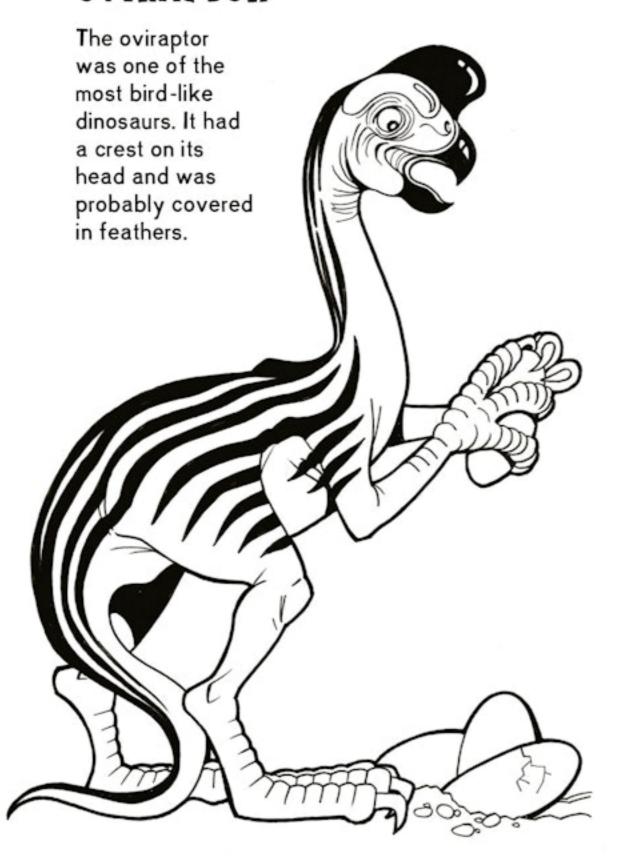


Triceratops translates to three-horned face in Greek.

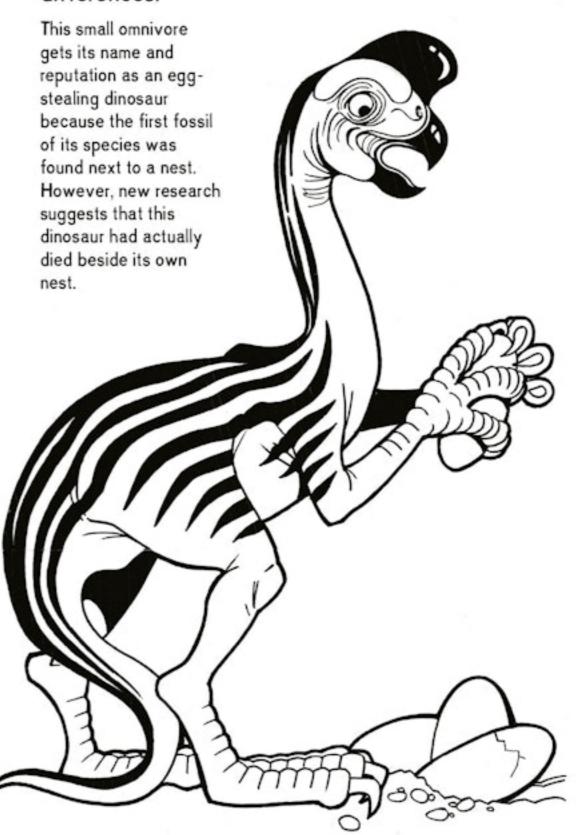


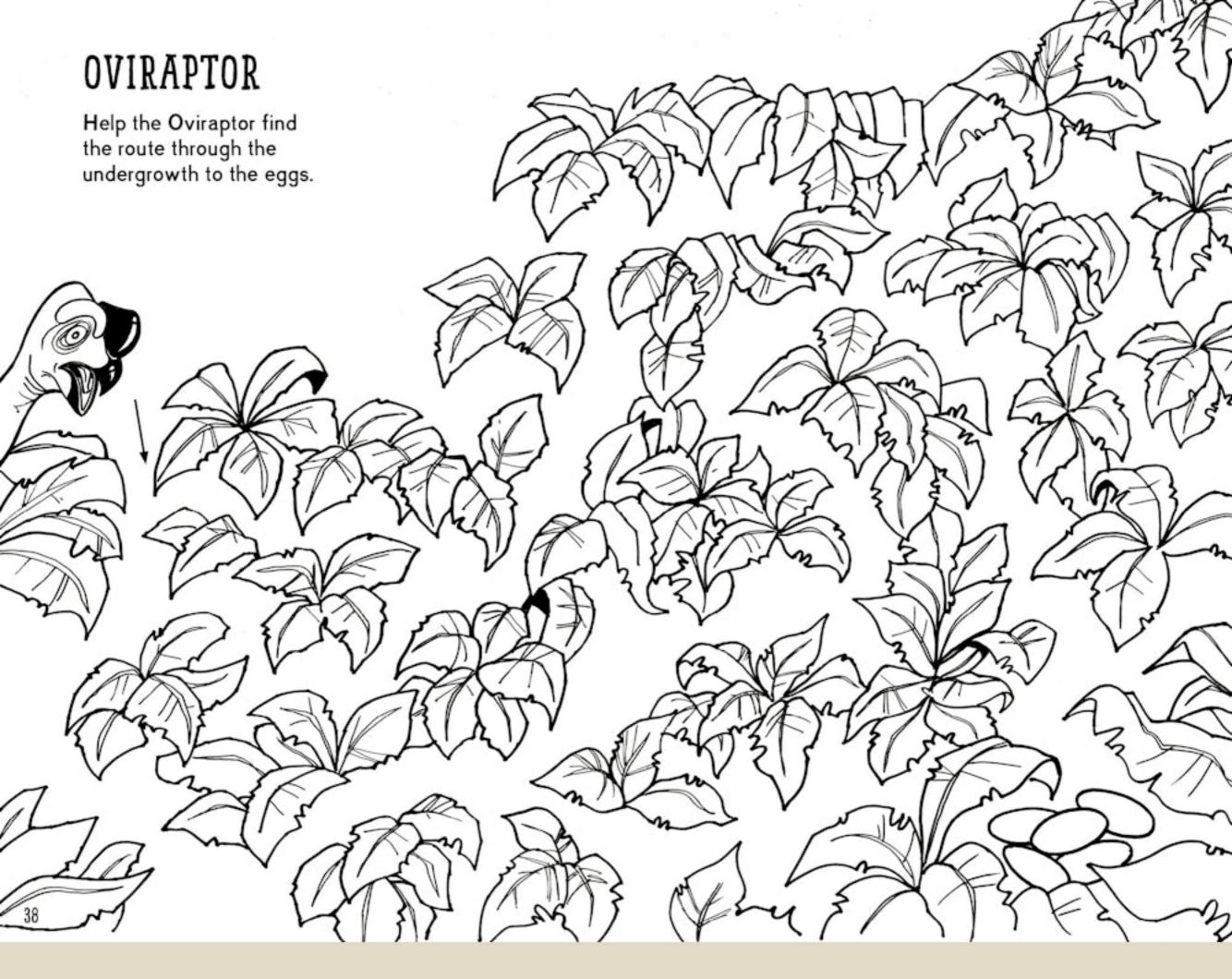
Tenontosaurus had a long, broad tail and bony tendons along its back.

#### OVIRAPTOR



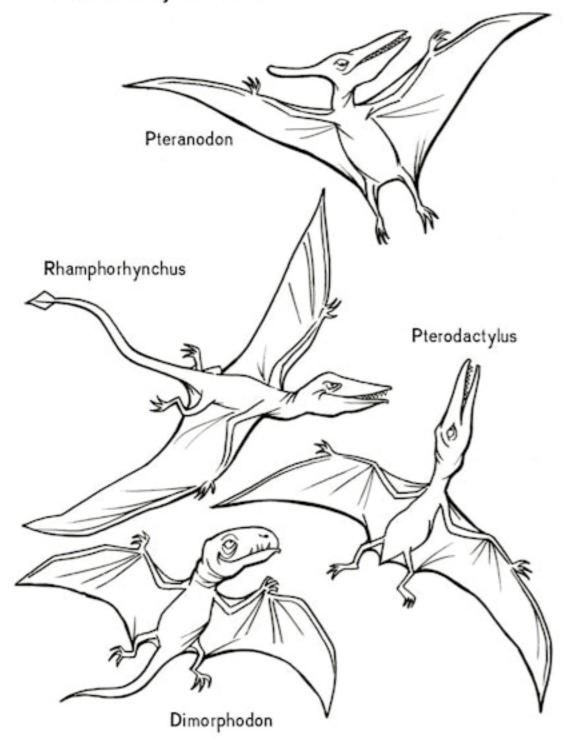
#### Spot the 8 differences!

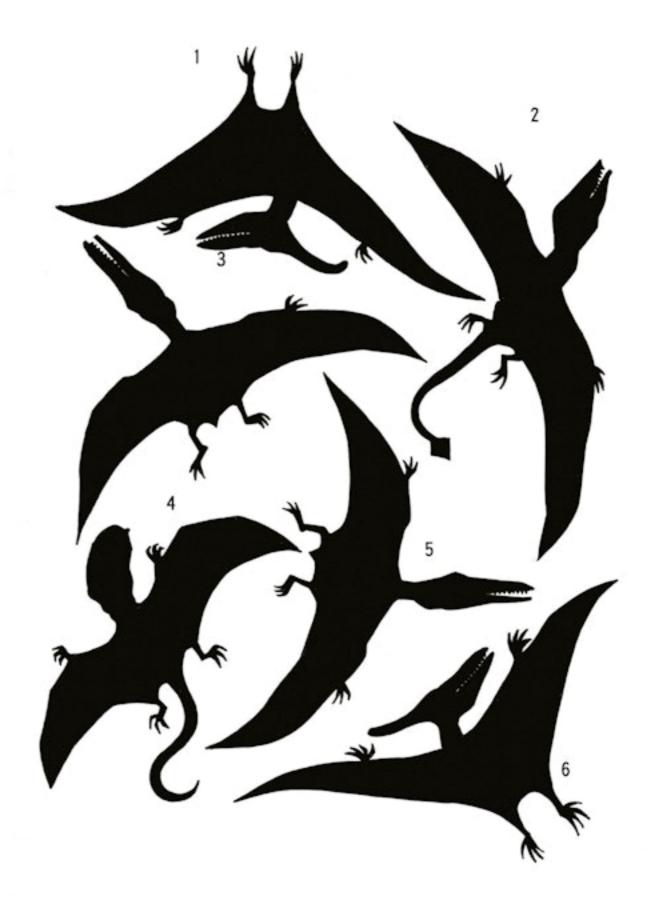


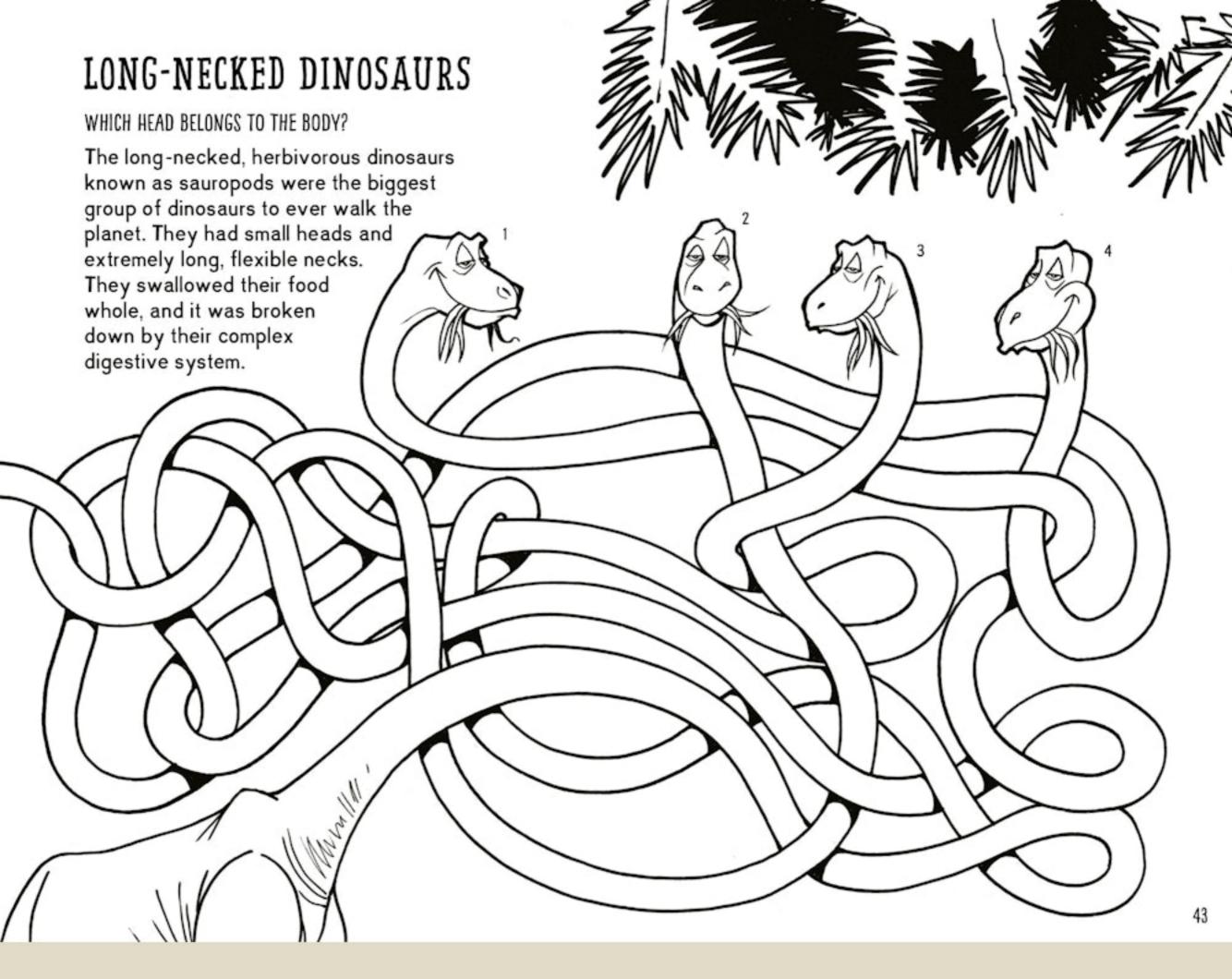


#### TAKING FLIGHT

Only one silhouette matches any of the pterosaurs below. Can you find it?







### COLOUR AND CUT OUT DINOSAUR MASKS





4. Scare a friend!

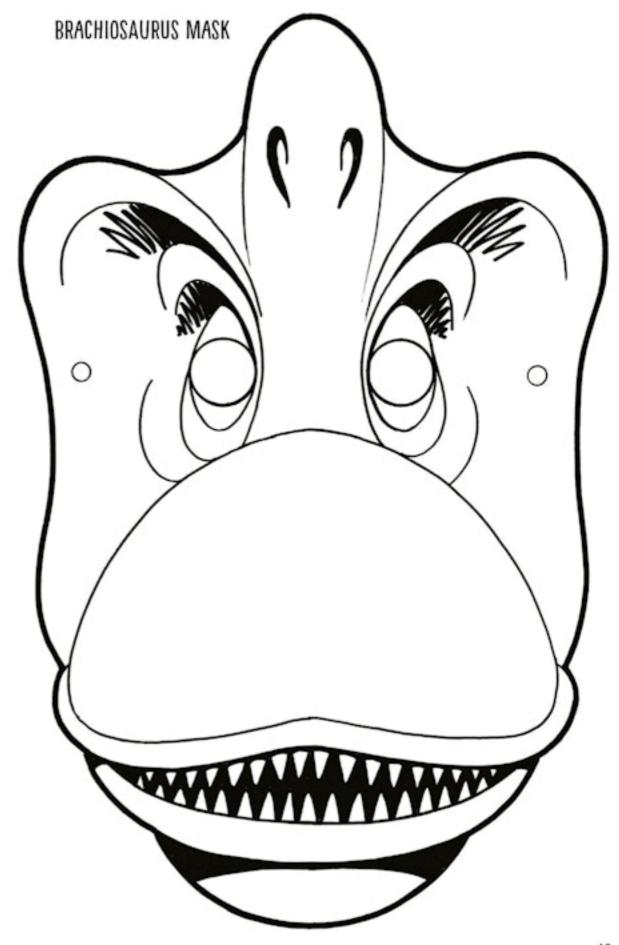
#### TYRANNOSAURUS

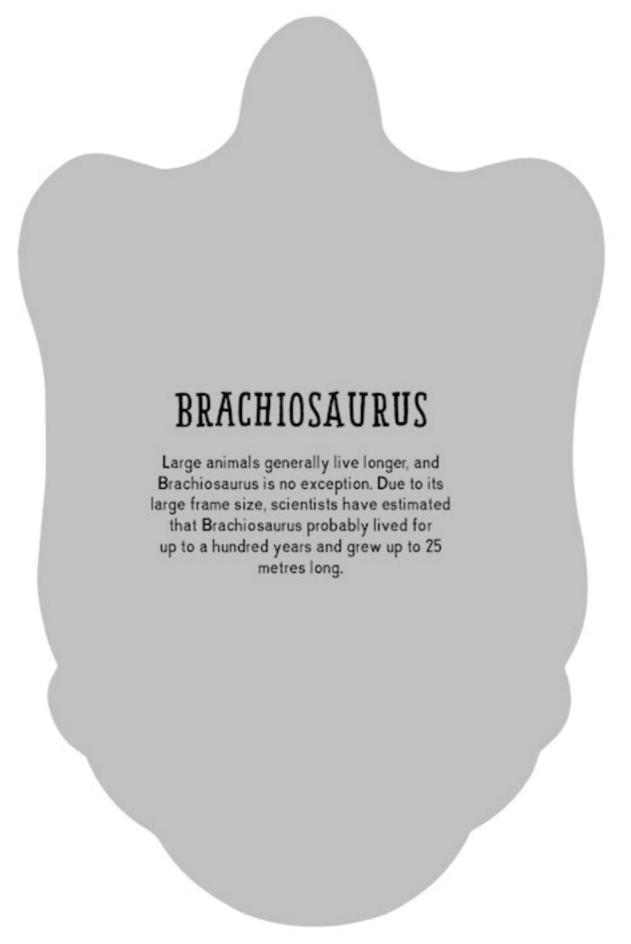
Tyrannosaurus rex certainly was a fearsome dinosaur. This carnivore had an enormous skull and massive, muscular jaws that measured over 1 metre long. Its huge jaws were packed with large, sharp teeth – perfect for snapping up prey! In fact, scientists believe they were able to eat up 230kg of meat in just one bite!



#### TRICERATOPS

Measuring 9 metres in length, Triceratops was about the same size as a modern African elephant. This powerful beast had an enormous neck frill and three large horns sprouting from its huge skull. It likely moved about in herds for protection and was a social animal.





JOIN THE DOTS: BRACHIOSAURUS

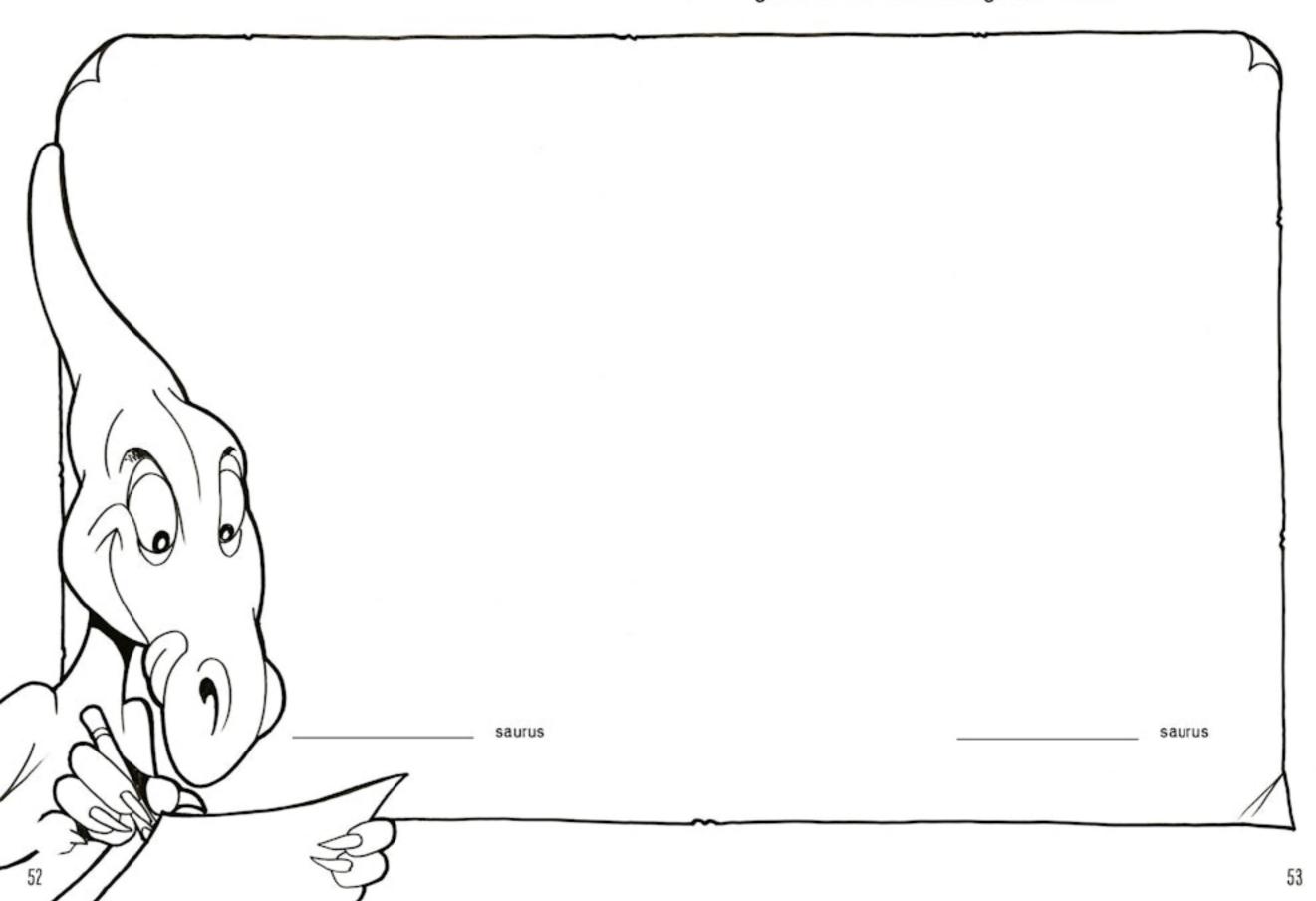


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20 •

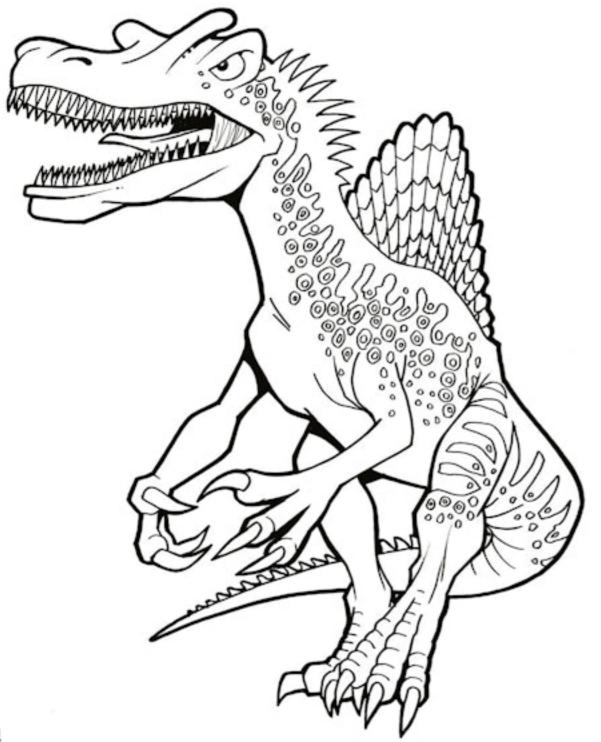
#### IMAGINE-A-SAURUS

Draw two made-up dinosaurs and give them names ending in ...saurus.



#### SPINOSAURUS

Spinosaurus was one of the largest known carnivorous dinosaurs. Like a modern crocodile, it lived on land and in water. A tall sail ran down its spine – nearly as tall as a human!

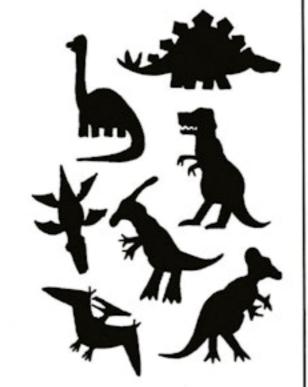


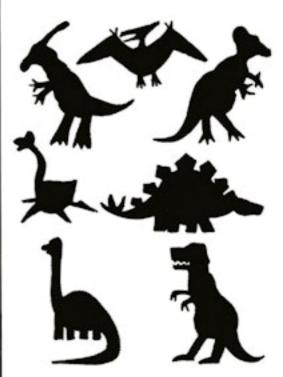
Α	S	С	D	В	М	1	L	S	R	Q	С	Т	U
М	Α	S	Р	1	N	0	S	Α	U	R	U	S	Р
F	В	В	S	Н	1	F	Р	L	Р	D	٧	Т	S
N	Е	G	В	Н	С	U	1	0	Е	W	0	U	Р
F	Z	K	J	G	Υ	٧	N	F	Χ	1.	N	S	1
L	S	1	S	Е	D	R	0	Q	L	М	N	S	N
G	Р	S	Р	1	N	0	S	Α	U	R	U	S	0
K	T	М	1	F	W	N	Α	K	W	S	Χ	Р	S
Н	N	1	Е	S	G	J	U	٧	S	Υ	Χ	1	Α
D	0	С	S	Р	٧	Н	R	S	Р	Z	S	N	U
В	S	Х	1	1	U	٧	U	U	ı	Υ	J	0	R
Υ	Α	T	J	N	1	F	S	С	N	D	Е	S	U
Z	U	Α	K	0	G	N	Α	Т	0	Z	1	Α	S
Е	R	М	L	S	Н	S	0	S	S	Р	Q	U	R
F	U	N	D	Α	R	1	S	S	Α	Н	0	R	Е
S	S	0	S	U	R	Р	1	G	U	N	Q	U	U
0	В	Р	0	R	J	J	S	S	R	U	R	S	٧
С	Q	R	Χ	U	K	L	М	Υ	U	Χ	R	W	Т
В	Α	Z	S	S	R	Q	Υ	R	S	Z	S	U	Е
W	Р	S	S	Р	1	N	0	S	Α	U	R	U	S

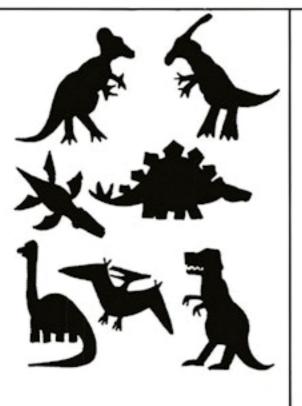
The word 'Spinosaurus' appears nine times in this wordsearch.

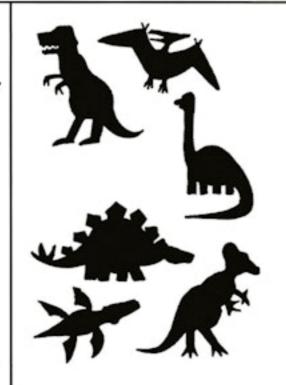
Can you find all of them?

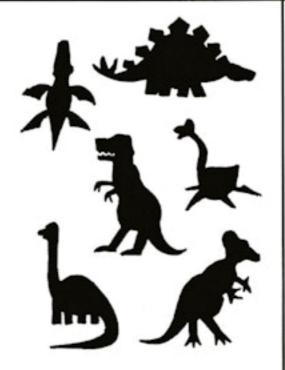
ONLY THREE OF THESE DINOSAURS
APPEAR IN EVERY PICTURE.
CAN YOU FIND THEM?

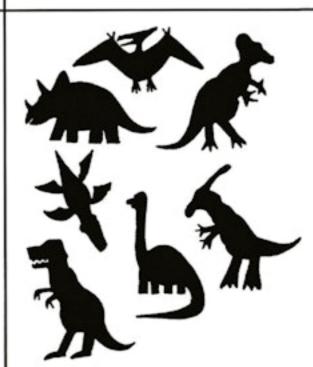


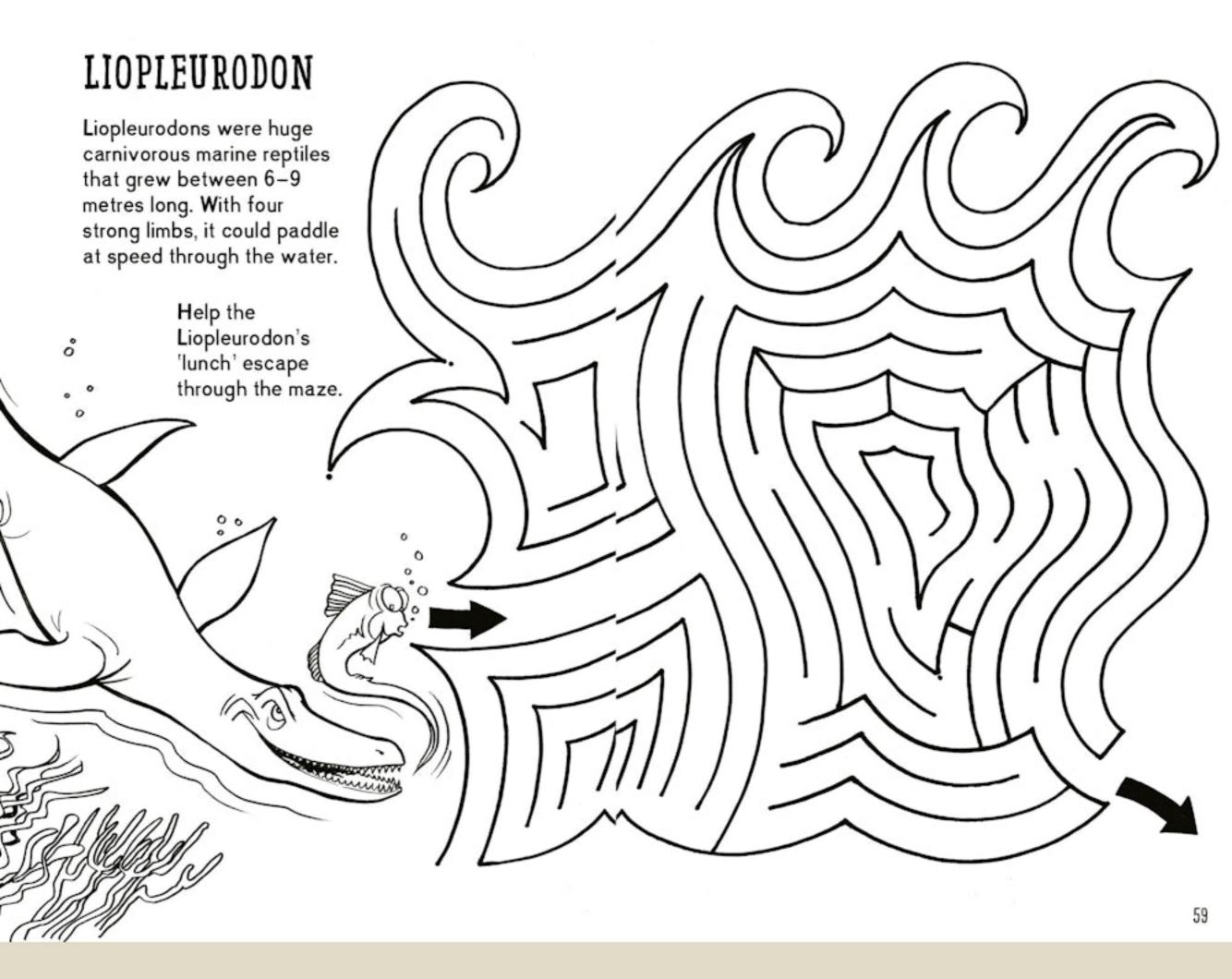






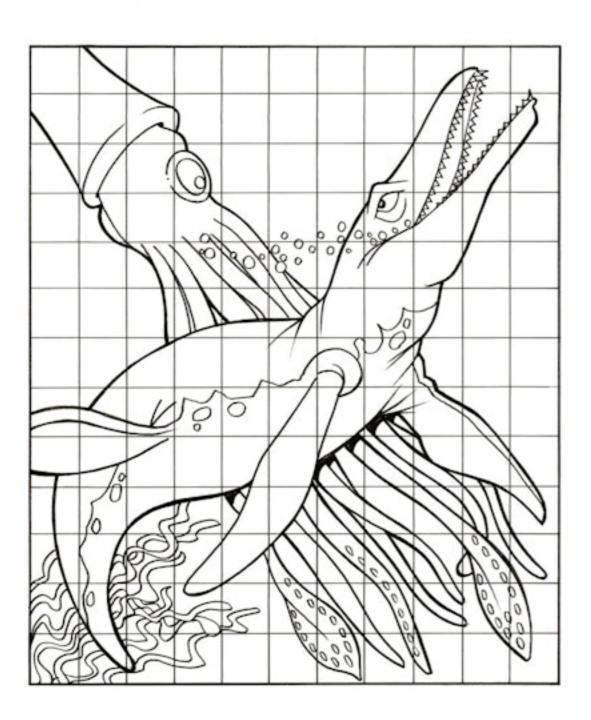




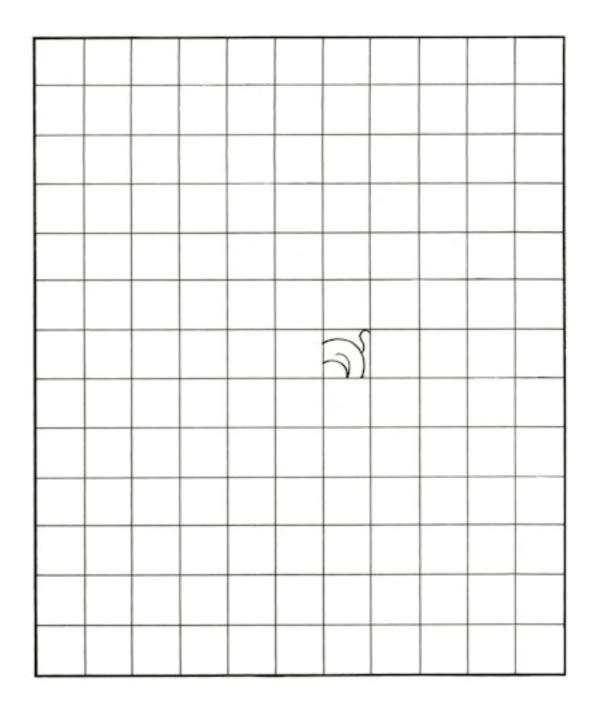


#### KRONOSAURUS

Copy each square of the grid onto the grid opposite to draw your own Kronosaurus and giant squid.

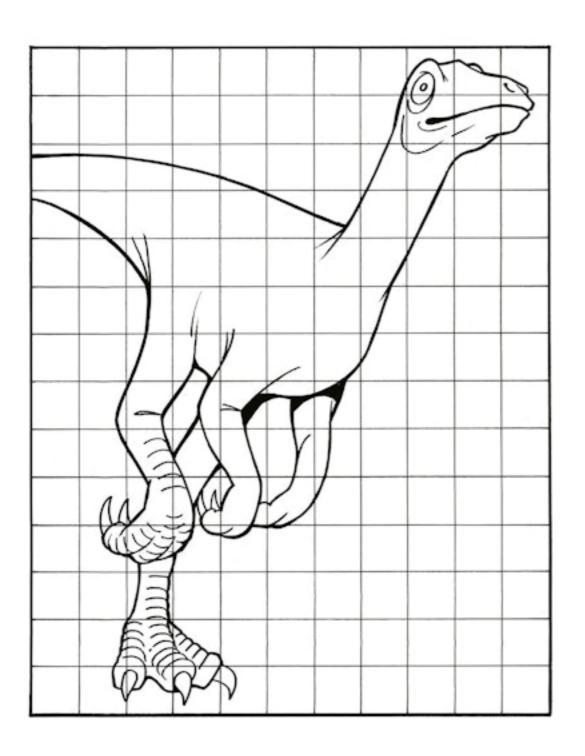


Kronosaurus was a reptile that lived in the water. It had a long head, a short neck, four powerful flippers and sharp teeth for eating other marine animals.

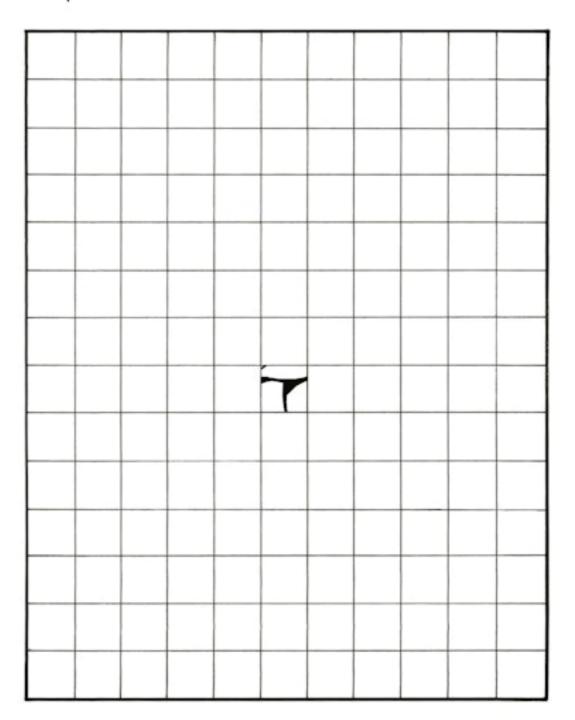


#### DEINOCHEIRUS

Now copy each grid square to draw a Deinocheirus.



The Deinocheirus was up to 11 metres long and had unusually large arms with big, blunt claws on either hand. It had many hollow bones, which made it lighter so it could move quite fast despite its size.

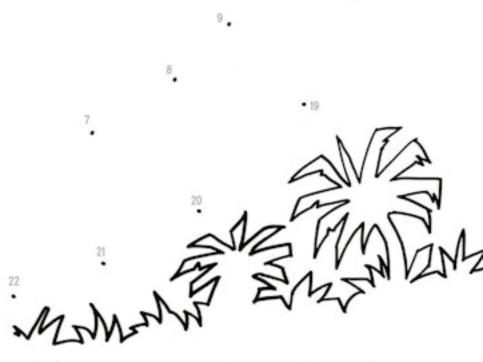


62

# 119 • 118 • 117 • 116 •

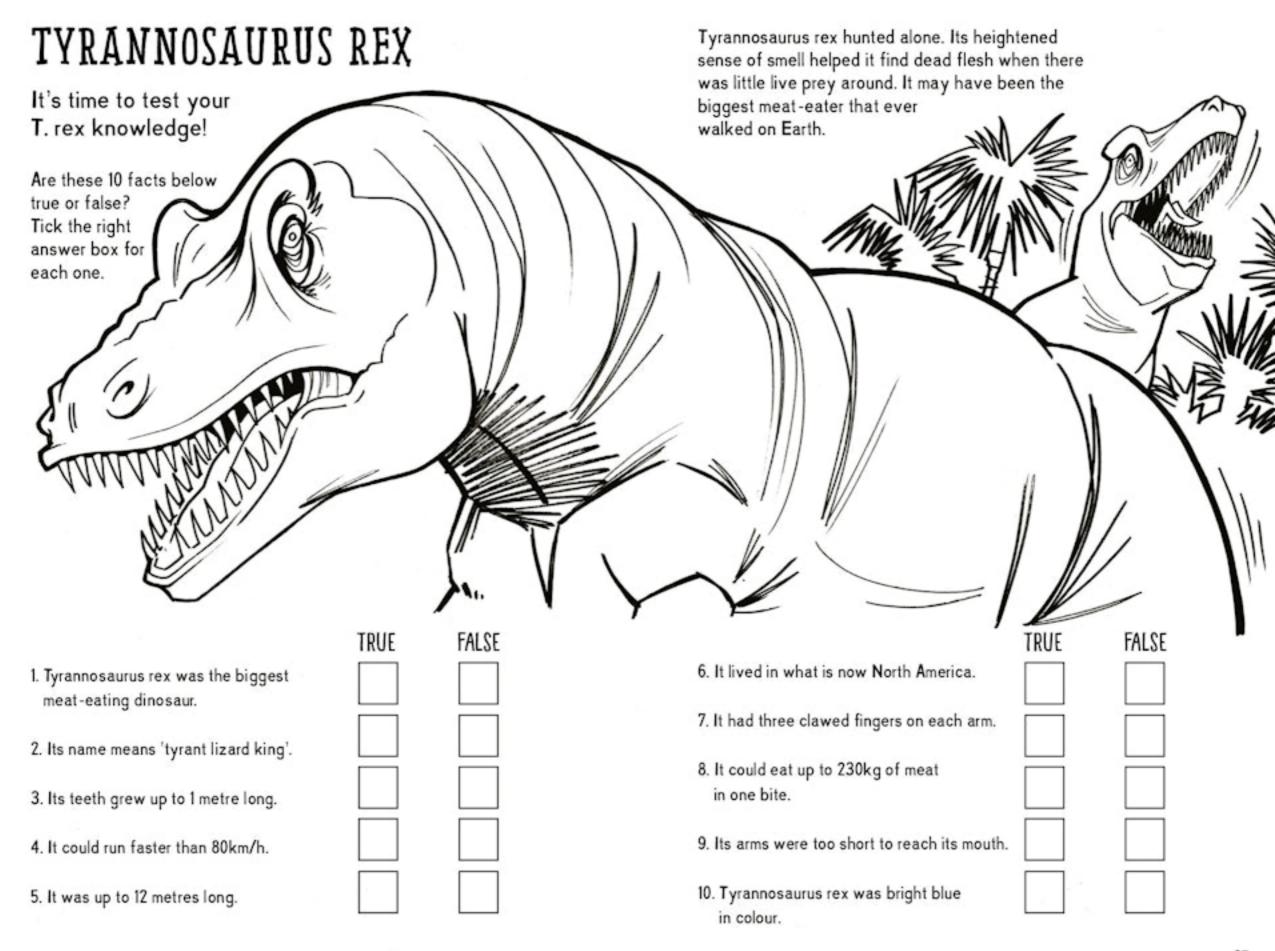
#### JOIN THE DOTS: TYRANNOSAURUS

The Tyrannosaurus lived around 68–66 million years ago. Its name, which means 'tyrant lizard king', reflects its position as one of the most ferocious predators of the Cretaceous period.



10 .

An adult was up to 12 metres long. The weight of its enormous head (about 1.5 metres long) was balanced at the other end by a long, heavy tail. It survived by hunting other dinosaurs, as well as scavenging the remains of dead animals. Fossil evidence shows that T. rex lived in what is now Montana and Wyoming, which are part of North America



#### FILL IN THE TRICERATOPS

Triceratops was a large, four-legged and herbivorous dinosaur. It had a bony frill on its head as well as three horns. Paleontologists still disagree about what these horns were used for.

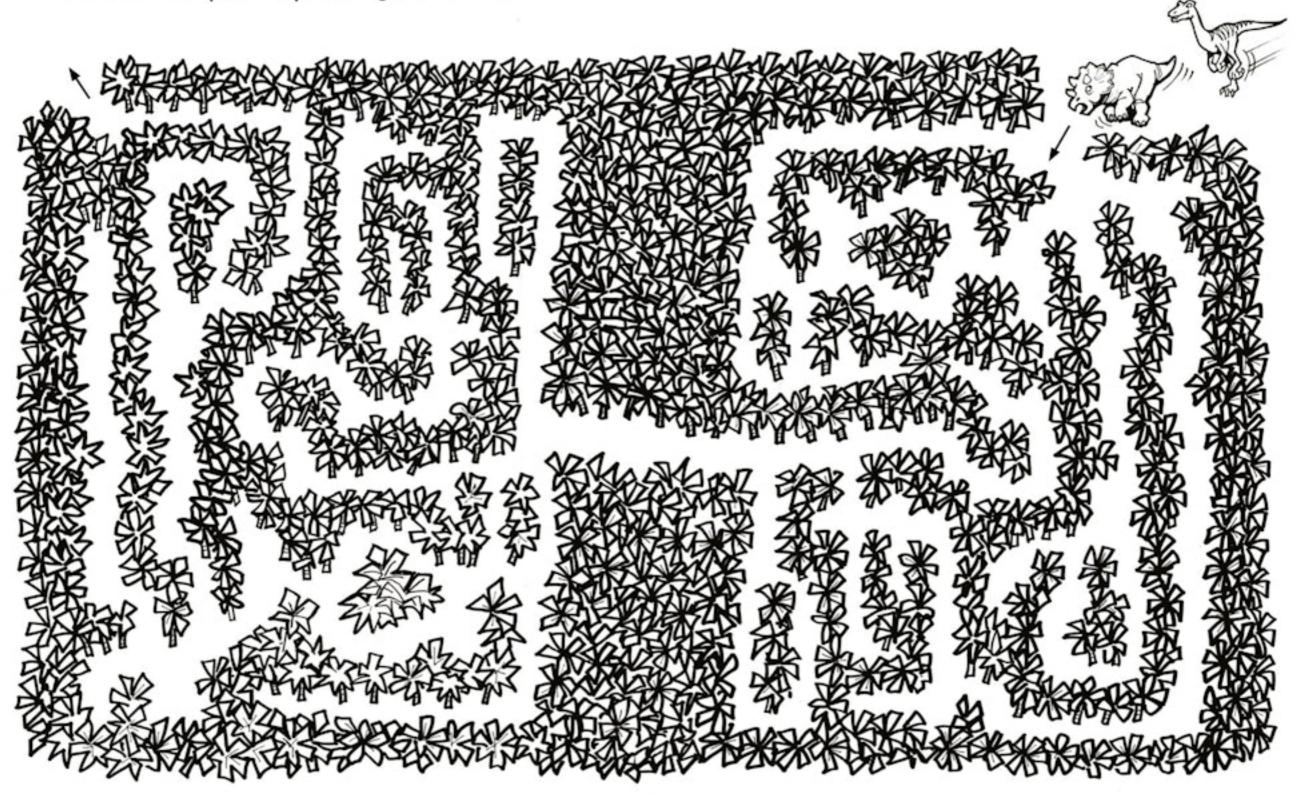


A Triceratops had legs
positioned directly
under its body for
strength and agility,
just like birds and
been found. They
mammals today.



# TRICERATOPS ESCAPE TRAIL

This baby Triceratops is being chased by a Troodon – help it escape through the forest!

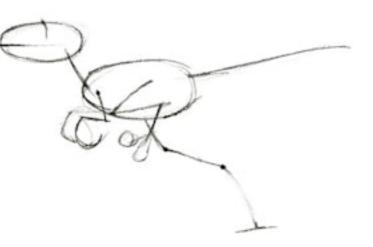


70

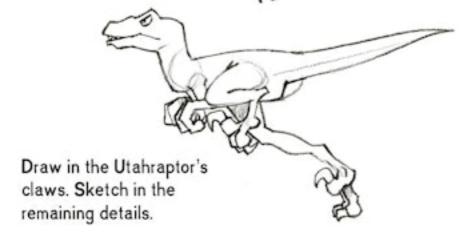
## UTAHRAPTOR

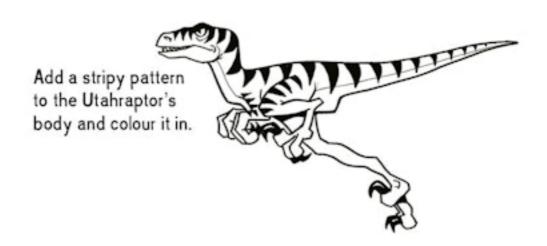
The Utahraptor, at around 6 metres long, was one of the largest and smartest raptors that ever lived. These large-eyed raptors could spot and outrun any prey they chose.

Start by drawing two ovals for the head and body. Add construction lines for its limbs and tail.



Add more lines to flesh out the limbs and tail. Draw in its eye, mouth, hands and feet.

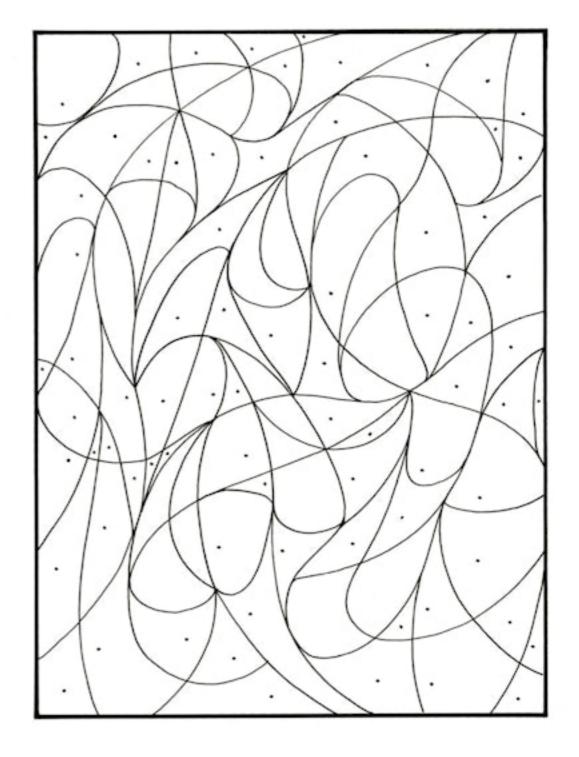


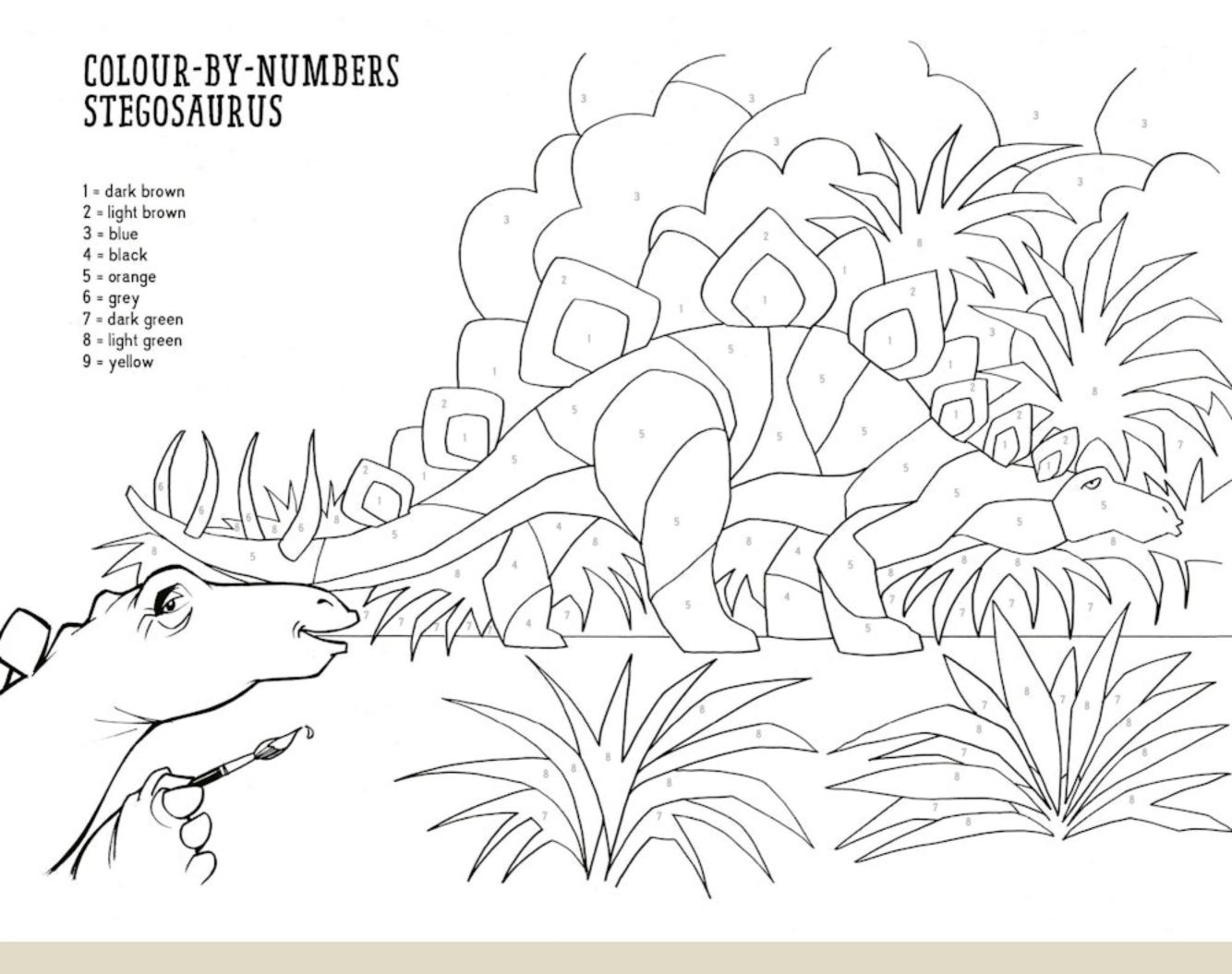




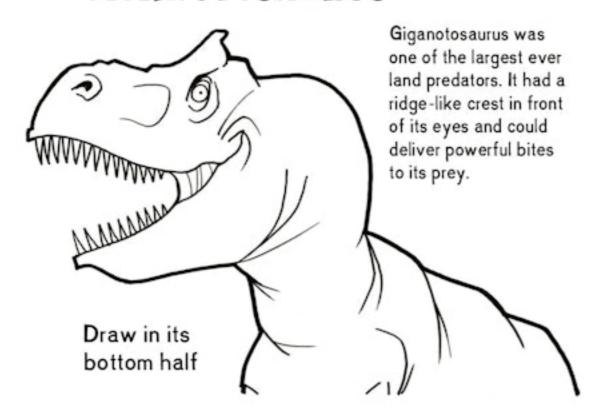
# ALLOSAURUS

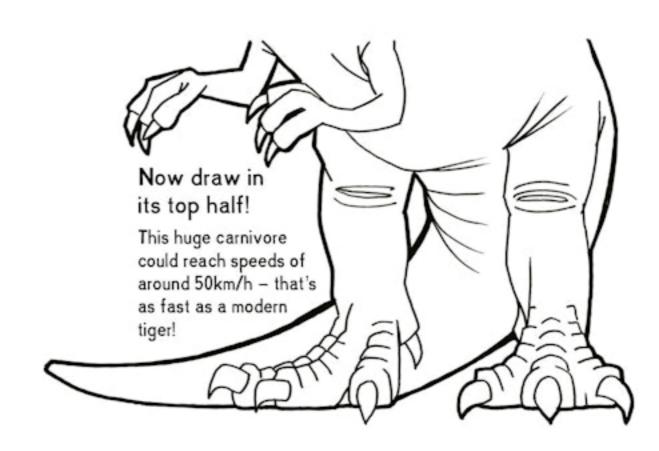






# GIGANOTOSAURUS

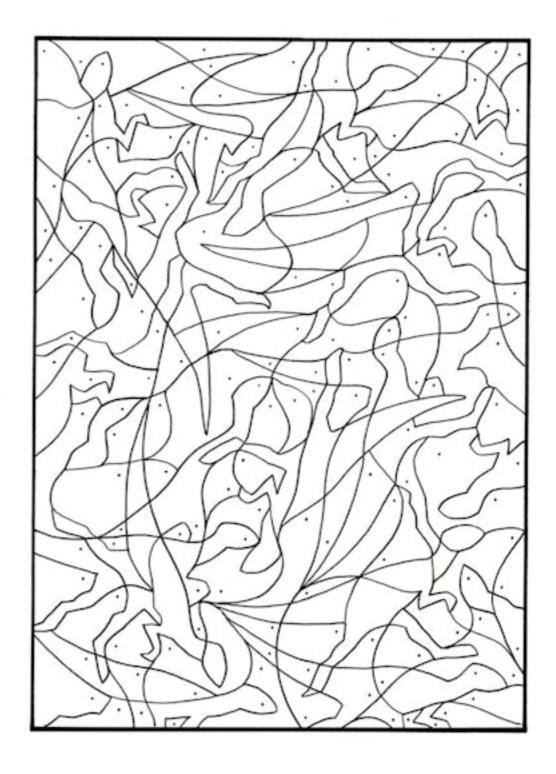




# TYRANNOSAURUS REX

How many meals can you find for this hungry Tyrannosaurus rex? Colour in each shape with a dot on it to reveal its prey!





80

## WHICH DINOSAUR?

Draw a line from each dinosaur name to the picture that matches it.

Hint: all these pictures appear somewhere in this book.

Stegosaurus

Giganotosaurus

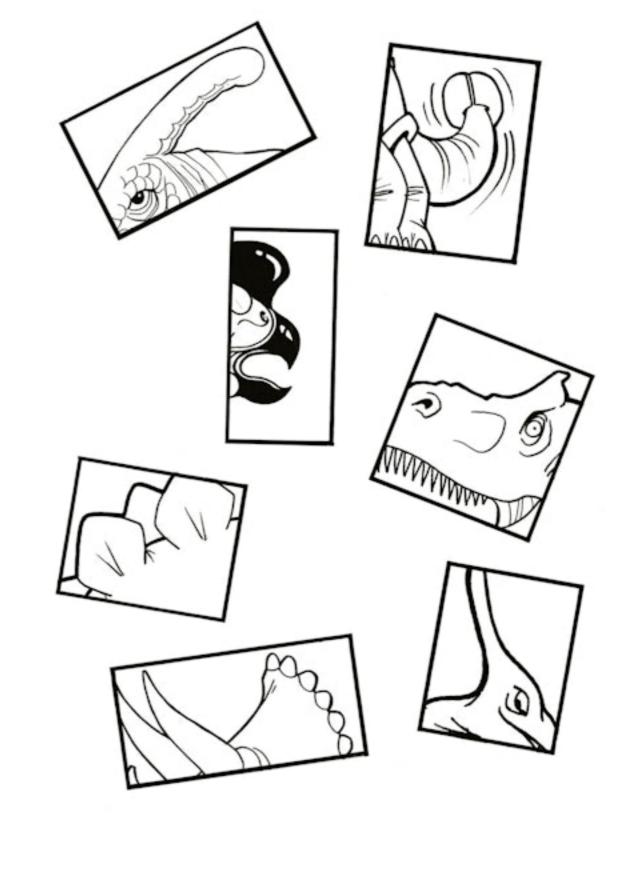
Triceratops

Parasaurolophus

Ankylosaurus

Oviraptor

Pteranodon

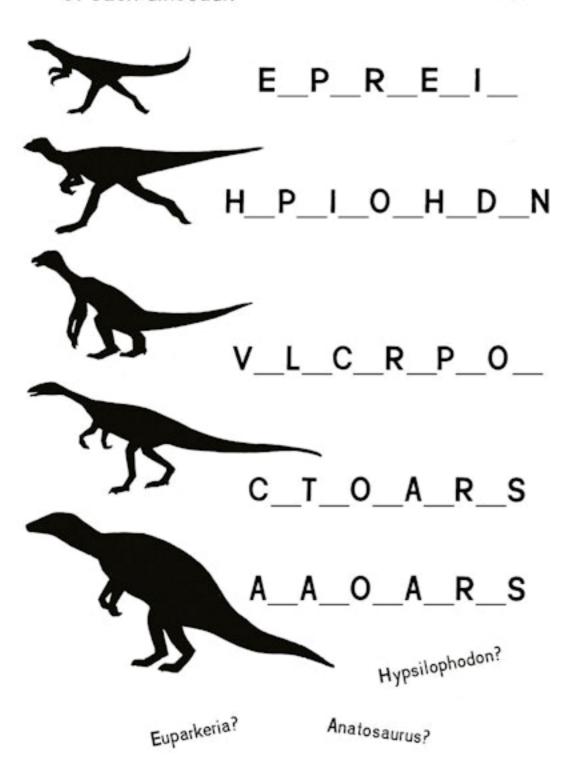


# WHICH DINOSAURS?

Velociraptor?

Fill in the missing letters and count how many there are of each dinosaur.

Cetiosaurus?

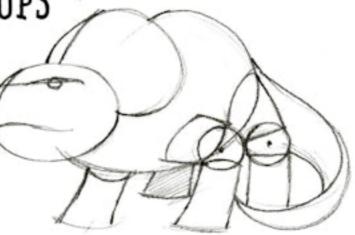






PROTOCERATOPS

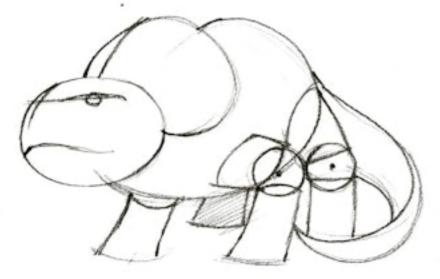
Start by drawing two ovals for the head and body. Draw in construction lines for the legs and tail.



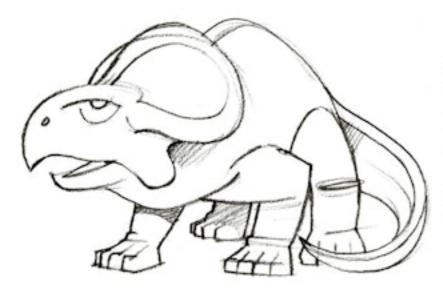
Shad and a Protestail. Its u

Shade in the eye pupil and add scales along the Protoceratops' back and tail. Add shadows onto its underside.

> Use this space for your own drawing.



Add more lines to flesh out its limbs and tail. Draw in its eyes and mouth, and its neck frill.



Sketch in a nostril, the inside of its mouth and its claws. Add more detail to its frill.

# DINOSAUR CROSSWORD

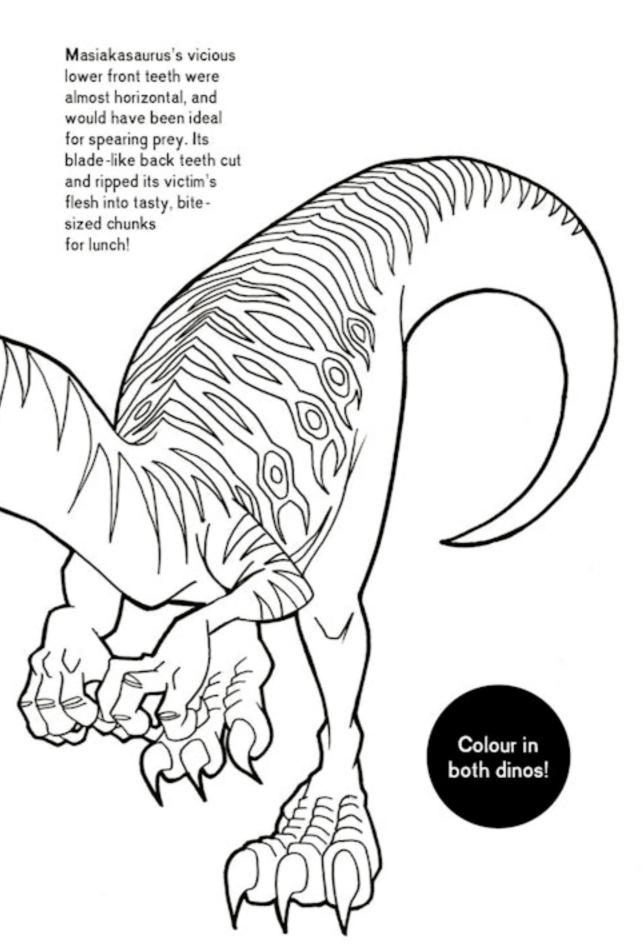
Carnotaurus

Diplodocus Baryonyx S Iguanadon Microraptor Spinosaurus R R N Allosaurus Е G R P U Alamosaurus M P Lusotitan G 0 Seismosaurus S М Stegosaurus

#### MASIAKASAURUS

A bipedal dinosaur with a long neck and tail, Masiakasaurus had extraordinarily terrifying teeth.

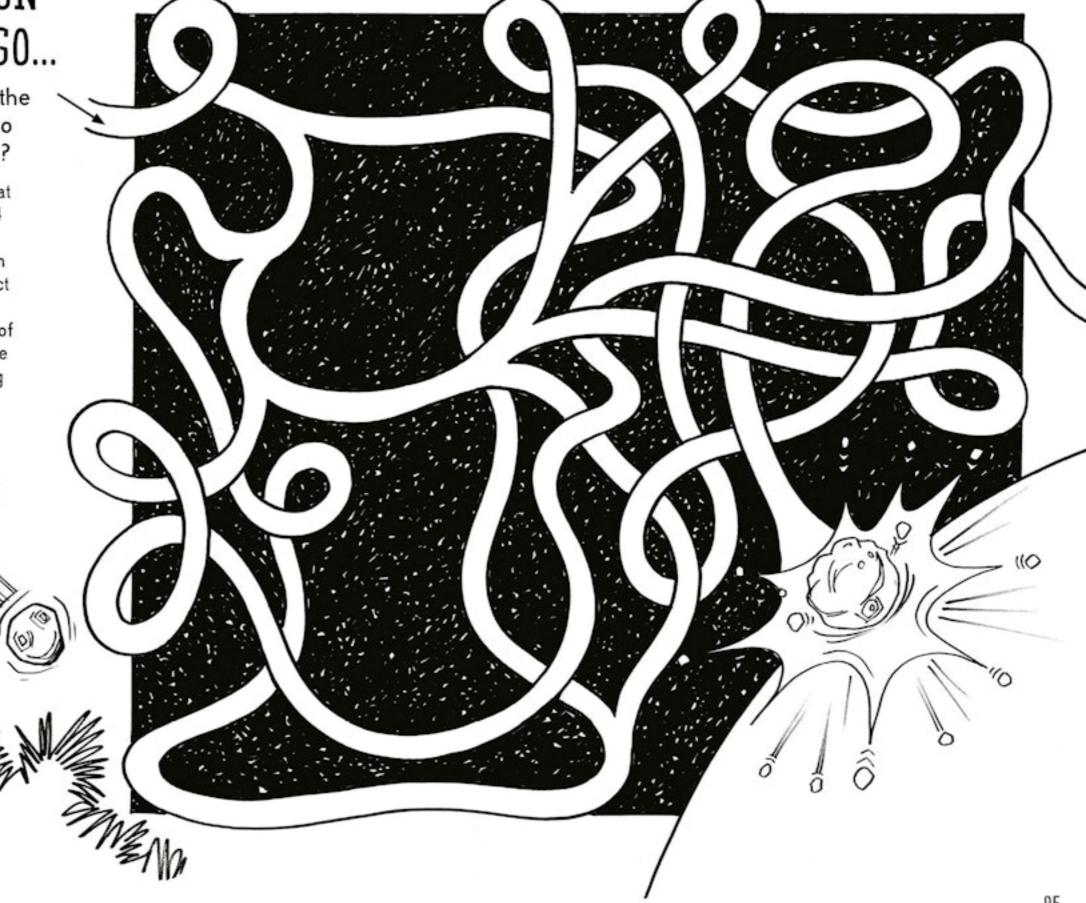
DINO FACT:
Bipedal dinosaurs, like
Masiakasaurus, walked
on two legs or limbs,
whereas quadrupedal
dinosaurs, like Diplodocus,
used four.



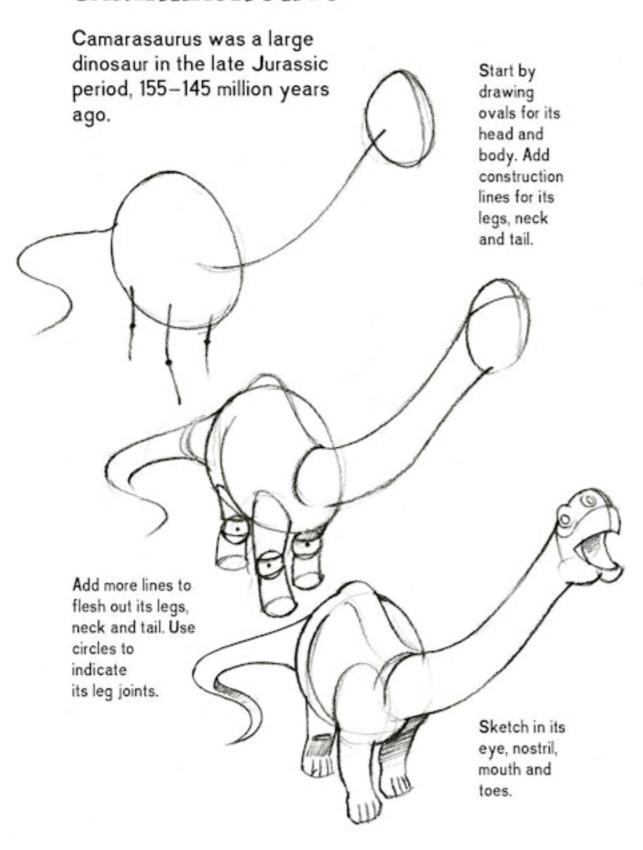


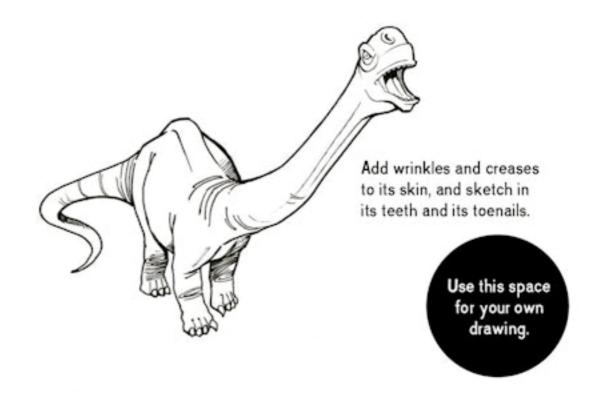
Which path did the meteorite take to crash into Earth?

There is evidence that a comet more than 14 kilometres wide hit Earth about 65 million years ago. The impact would have thrown enormous quantities of rock and dust into the atmosphere, blocking out the sun globally.



## CAMARASAURUS





# PAPER T-REX

Another great 3D character for you to create using simple materials.

You will need:

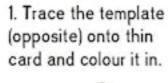
Tracing paper

Pencil

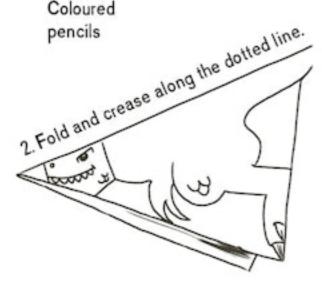
Thin card

Scissors

Coloured



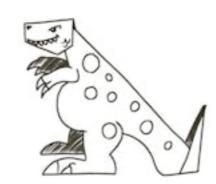




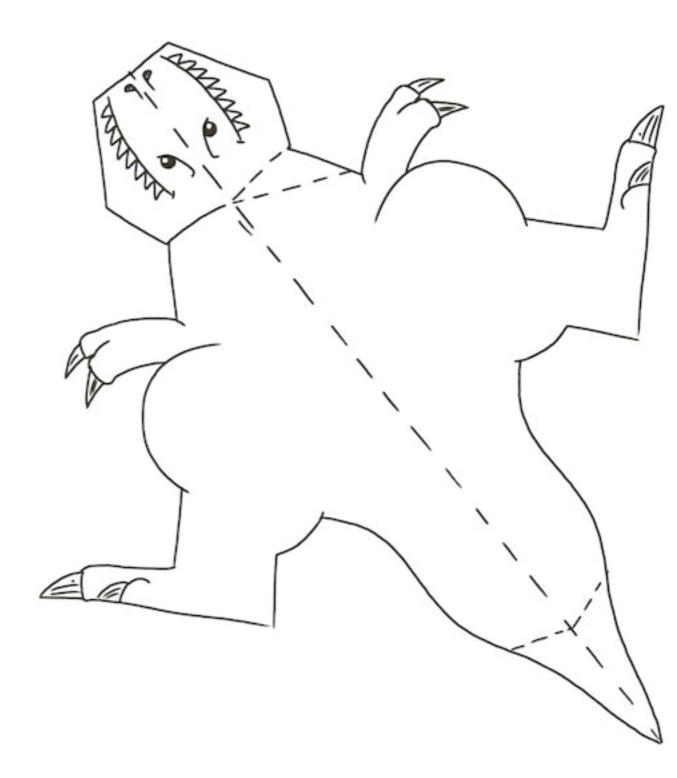


3. Now cut around the dinosaur shape.





4. Now stand your scary T-rex on its feet!







#### THE ULTIMATE DINO QUIZ

Get ready to test your knowledge in this roarsome dinosaur quiz. Don't forget to fill out your score and colour in your certificate on page 111 to show off your paleontology expertise!

- 1. When did the first dinosaurs appear on Earth?
- 2. During the Triassic period, the continents were joined together to form one giant supercontinent. What was this called?
- 3. When did Diplodoscus live?
- 4. Although pterosaurus also lived during the Masozoic period, they were not actually dinosaurs – what were they?
- 5. What is the largest known dinosaur fossil ever found?
- 6. Which dinosaur's name means 'near-crested lizard'?
- 7. Paleontology is the scientific study of what?
- 8. Tyrannosaurus rex have huge skulls and large, muscular jaws. How long can their jaws grow up to?
- 9. Large animals generally live longer, and the Brachiosaurus was no exception. Scientists have estimated this dinosaur could live up to how many years?
- 10. How many horns can be found on a Triceratops' head?

- 11. Scientists suggest that the age of dinosaurs ended when a meteorite hit Earth. How many years ago was this?
- 12. Stegosaurus is an armoured dinosaur. How tall could its tail spikes grow to?
- 13. What is a fossil?
- 14. Most dinosaurs had teeth that were replaceable.
  True or false?
- 15. Which dinosaur was one of the most bird-like dinosaurs to exist? Hint: it had a crest on its head and was likely covered in feathers!
- 16. Which group of herbivores are known for their long necks, small heads and complex digestive system?
- 17. Which dinosaur has a large club at the end of its tail to defend itself from attackers?
- 18. Unscramble the following dinosaur name: ARPURLPSOOHSUAA
- 19. Pteranodon had a wingspan of how many metres?
- 20. What is the difference between a 'bipedal' and 'quadrupedal' dinosaur?

#### GLOSSARY

Carnivore: A meat-eater.

Claws: The hard endings to fingers and toes, tapering to a point.

Cretaceous: The period from 146 million to 65 million years ago. Dinosaurs disappeared at the end of this period.

Evolve: Develop gradually over many generations.

Excavated: When the remains of an animal or object are dug out of the ground.

Fossil: The remains of a dead animal or plant, naturally preserved in the ground.

Gastrolith: A stone swallowed by an animal to grind up its food.

Herbivore: A plant-eater.

Ichthyosaur: A fish-like swimming reptile.

Jurassic: The period from 208 million to 146 million years ago.

Meteor: A lump of rock or other matter from outer space that enters the Earth's atmosphere.

Nest: A place chosen by a type of animal to lay its eggs and look after its babies when they hatch. Omnivore: A creature that eats both plants and meat.

Pangea: A single supercontinent that existed around 250 million years ago.

Plesiosaur: A long-necked swimming reptile.

Predator: A creature that hunts, catches and eats other animals, its prey.

Prey: A creature that is caught and eaten by a hunting animal, a predator.

Pterosaur: A type of flying reptile from the time of the dinosaurs.

Sauropod: Mostly very large plant-eating dinosaurs with a small head, long bendy neck and tail, and wide body with four stout legs. The name means 'lizard-feet'.

Species: A single kind or type of animal with a two-part official scientific name, such as Tyrannosaurus rex.

Theropod: A type of dinosaur that walked or ran on two legs.

Triassic: The period from 245 million to 208 million years ago.

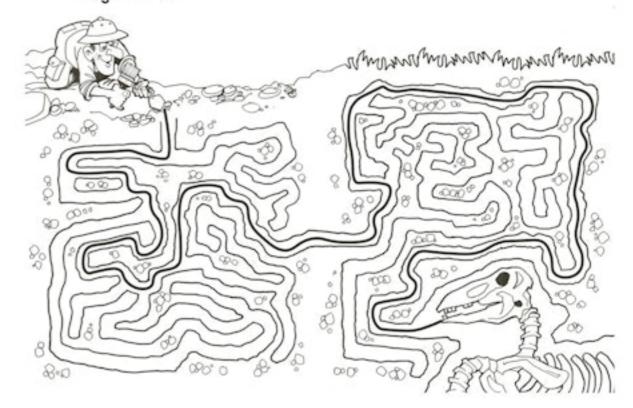
#### ANSWERS

Pages 16-17:



Pages 20-21: 11 bones

Page 22-23:



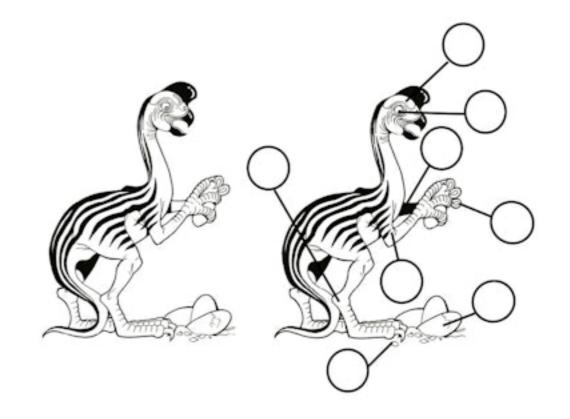
Page 24-25:

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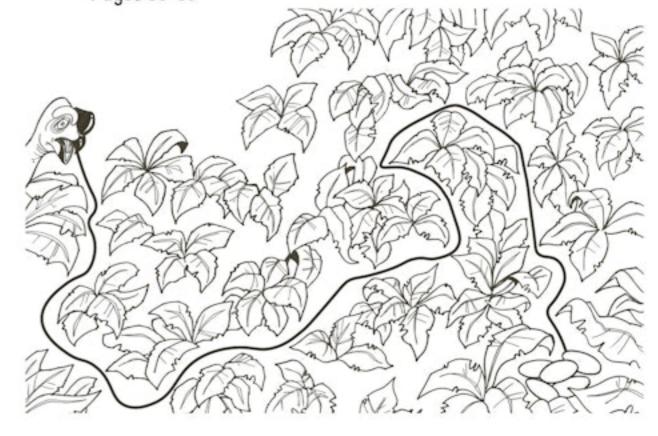
Pages 30-31: Troodon 3

Pages 32-33: Skull 4

Pages 36-37:



Pages 38-39



Pages 40-41: Silhouette 5

Pages 42-43: Head 4

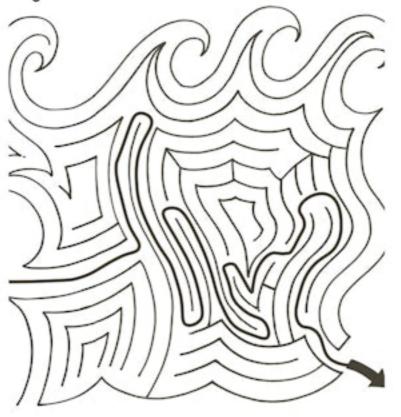
Pages 54-55:

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Pages 56-57:

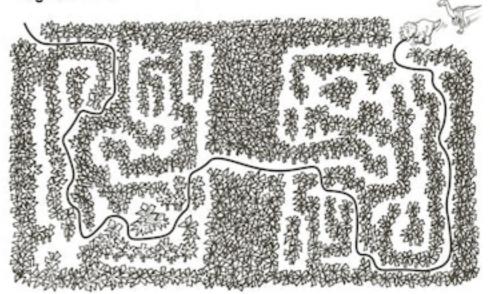


Pages 58-59:



Pages 66-64: 1 = false, 2 = true, 3 = false, 4 = false, 5 = true, 6 = true, 7 = false, 8 = true, 9 = true, 10 = false.

#### Pages 70-71:



Pages 74-75:8 teeth

Pages 80-81: 6 meals

#### Pages 82-83:



Parasaurolophus



Stegosaurus



Giganotosaurus



Oviraptor



Ankylosaurus P



Pteranodon

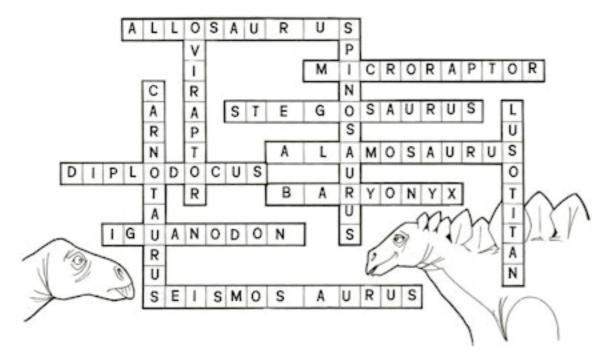


Triceratops

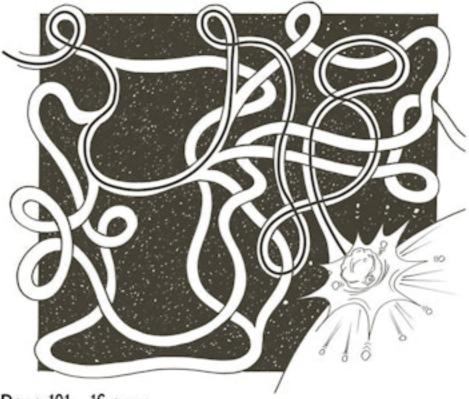
Pages 84-85:8 x Euparkeria, 5 x Hypsilophodon, 4 x Velociraptor, 5 x Cetiosaurus, 2 x Anatosaurus

Pages 86-87: Tail 3

Pages 90-91



Pages 94-95



Page 101: 16 eggs

Pages 102-103:

The Ultimate Dino Quiz answers:

1 = About 250 million years ago

2 = Pangea

3 = During the late Jurassic period, about 155-145 million years ago

4 = Flying reptiles

5 = Titanosaur

6 = Parasaurolophus

7 = Paleontologists study extinct species of life, like dinosaurs!

8 = T. rex jaws could reach over 1 metre long

9 = Over 100 years

10 = It has three horns on its head 11 = 65 million years ago

12 = Over 90 centimetres in length

13 = Fossils are the remains of animals or plants that died long ago and have been preserved in rock

14 = True

15 = Oviraptor

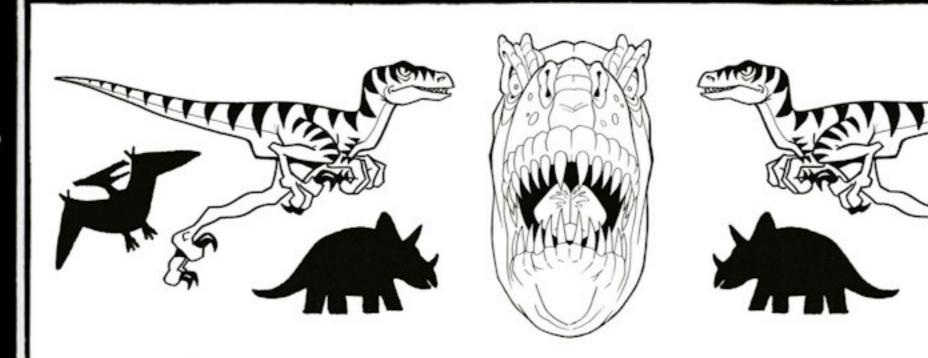
16 = Sauropods

17 = Ankylosaurus

18 = Parasaurolophus

19 = 7 metres

20 = A bipedal dinosaur walks on two legs or limbs, whereas a quadrupedal dinosaur uses four



# CERTIFICATE OF BOREDOM BUSTING

THIS CERTIFICATE IS PRESENTED TO

PALEONTOLOGIST .....

UPON THE COMPLETION OF ALL ACTIVITIES IN THIS BOOK.

**CONGRATULATIONS!** 

