

SAFETY INFORMATION WARNING: CHOKING HAZARD — Small parts. Not for children under 3 yrs.

Warning! Not suitable for children under 3 years. Choking hazard — small parts may be swallowed or inhaled.

Keep the packaging and instructions as they contain important information.

WARNING! Not suitable for children under 4 years. For use under adult supervision. Read the instructions before use, follow them and keep them for reference.

Do not inhale plaster dust or bring it into contact with mouth or eyes. Wash hands after use!

Have any questions? Missing any parts? Want to send us a birthday card? Our tech support team will be glad to help you!

Thames & Kosmos US Email: support@thamesandkosmos.com Web: thamesandkosmos.com Phone: 1-800-587-2872



©2024 Thames & Kosmos, LLC, Providence, RI, USA Thames & Kosmos® is a registered trademark of Thames & Kosmos, LLC. All rights reserved.

© 2024 Wondery LLC and Tinkercast, LLC

This work, including all its parts, is copyright protected.

Image credits: p. 5 (plants) Natali Snailcat, p. 5 (magnolia) blueringmedia, p. 5 (redwood) BEMPhoto (all previous: © stock.adobe.com)

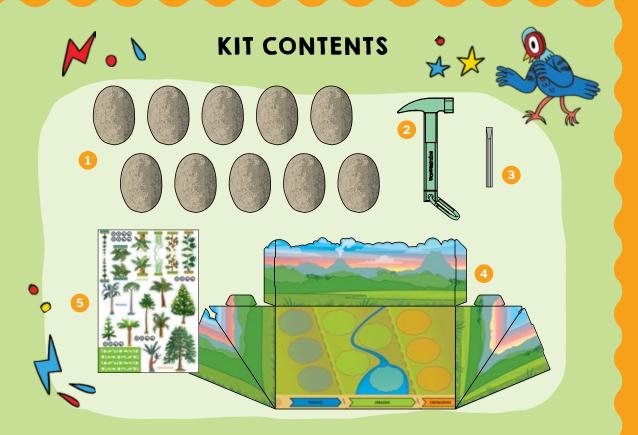
Distributed in North America by Thames & Kosmos, LLC. Providence, RI 02903

Phone: 800-587-2872; Web: thamesandkosmos.com The right to technical alterations is reserved. Printed in Thailand / Imprimé en Thaïlande



The Wondery+ subscription offer is exclusively available to new, first-time Wondery+ subscribers who signed up via the QR code in this guide. Such new subscribers receive their first 3 months of Wondery+ at no cost, after which your subscription will automatically renew at the then-current price. The discount cannot be added retrospectively by you or our Customer Service team. Discounts are not valid for gift card purchases. Offer good while supplies last or until terminated by Wondery. Discounts cannot be combined. Taxes may apply to the full value of discounted subscription. If you violate any of these terms, the offer will be invalid. Wondery reserves the right to modify or cancel the offer at any time. Offer is non-transferable and may not be resold.

Android, Google Play and the Google Play logo are trademarks of Google Inc. Apple and the Apple Logo are trademarks of Apple Inc., registered in the USA and other countries. App Store is a service mark of Apple Inc.



Part No.	Description	Quantity
1	Dino egg with dinosaur figure inside	10
2	Rock hammer with clip	1
3	Chisel	1
4	Cardboard for diorama	1
5	Sticker sheet for diorama	1

YOU WILL ALSO NEED: CUP (OR SMALL BOWL) OF WATER, NEWSPAPER OR PAPER TOWELS





DINOSAUR EXCAVATIONS

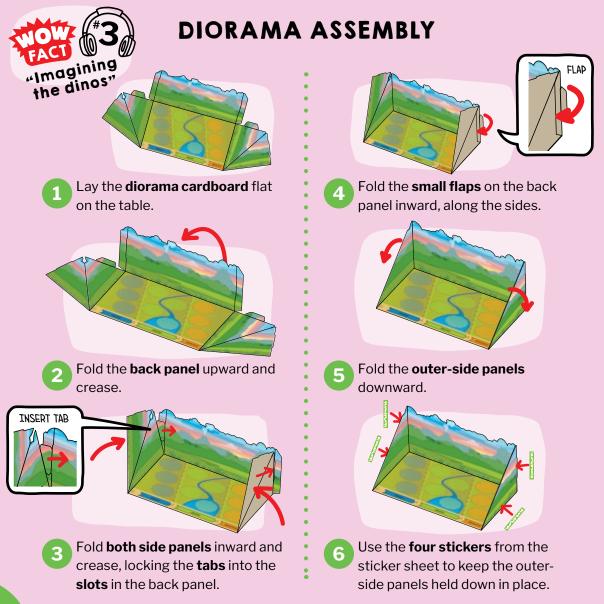
- Each plaster dino egg contains a different dinosaur figure. Start with one plaster egg. Get your rock hammer and chisel tools ready, as well as a cup filled with water. Before starting your excavation, cover your work area in newspaper or paper towels. Choose a work area that can get a little messy.
- Place the egg into the cup of water. This will soften the plaster. The longer the egg is in the water, the softer it will become and the easier the excavation will be. But you can also just soften the outermost layer and then work your way through the harder layers on the interior later on.
- 3

Now **dig** the dinosaur figure out of the egg by scraping away the plaster with your chisel or rock hammer. As soon as you come to the dinosaur, work **carefully** as you uncover the entire figure bit by bit. Finally, **rinse** any remaining plaster off the dinosaur under running water. Then rinse out the sink.

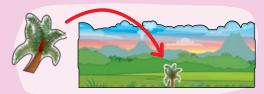
To find out **which dinosaur** you found, take a look at pages 7–9. Repeat to dig up all **10 dinosaurs.**







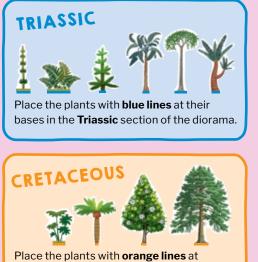
PLACING THE PREHISTORIC PLANTS



The plant stickers that have **only a front side** can be stuck along the **back and side panels** of the diorama.



- 2 The plant stickers that have **both front and back sides** can be placed **sticking up from the base** of the diorama, as shown here.
- Place the plant stickers in the corresponding **prehistoric periods** by following the **color coding** on the sticker sheet and diorama:



Place the plants with **orange lines** at their bases in the **Cretaceous** section of the diorama.



Place the plants with green lines at their

bases in the **Jurassic** section of the diorama.

IURASSIC



PLACING THE DINOSAURS

The dinosaurs didn't all live during the same time period! They evolved over millions of years. Place the dinosaurs in the colored ovals on the diorama, matching the geologic periods below.



THE GOOGLY-EYE STICKERS TO THE DINOSAURS TOO!



4	Dinosaur name	Lived this many million years ago	During this geologic period
A.	Herrerasaurus	231 - 229	TRIASSIC
	Riojasaurus	227 - 213	TRIASSIC
	Ornithosuchus*	225	TRIASSIC
	Plesiosaurus*	200 - 176	JURASSIC
	Dilophosaurus	184	JURASSIC
	Stegosaurus	155 - 145	JURASSIC
	Brachiosaurus	154 - 150	JURASSIC
1	Pteranodon*	86 - 85	CRETACEOUS
r f	Tyrannosaurus rex	68 - 66	CRETACEOUS
	Triceratops	68 - 66	CRETACEOUS

*Note: Ornithosuchus, plesiosaurus, and pteranodon are technically not dinosaurs, as they have separate genetic ancestors from dinosaurs. However, they are often referred to as dinosaurs.





252 TO 201 MILLION YEARS AGO

Dinosaurs first appeared in the late Triassic, around 230 million years ago.

Herrerasaurus

A sleek meat-eater with a long tail that walked on two hind legs. Grew up to six meters (20 ft) long and 350 kilograms (770 lb).

Riojasaurus

A plant-eater with a long neck, long tail, heavy body, and thick legs. Reached 10 meters (33 ft) in length and over three metric tons.

Ornithosuchus

Not technically a dinosaur, this thick-necked creature is a distant relative of modern crocodiles. It could walk on its hind legs but probably walked on all fours more often. About four meters (13 ft) and 200 kilograms (440 lb).

Plants of the Triassic

Seed-producing plants called **GYMNOSPERMS** took over during this period, joining the more primitive plants that reproduced with spores. Gymnosperm means "naked seed" and refers to plants that have seeds on the outside of special structures, like cones, rather than on the inside like fruits. Gymnosperms of this period include **ASTEROXYLON (1), MEDULLOSA (2), AND BENNETTITALES (3).** Examples of the earlier, spore-producing plants include **FERNS (4), HORSETAILS (5), AND LYCOPOD TREES (6).**



JURASSIC PERIOD LIFE

201 TO 145 MILLION YEARS AGO

The rise of the dinosaurs! A diverse array of dinosaurs evolved to dominate the planet.



The **ICHTHYOSAURS** ("fish lizards") and **PLESIOSAURS** were also not true dinosaurs. Plesiosaurus lived in the ancient seas, where it hunted fish and other prey. Distinctive features were the long neck and paddleshaped limbs. Up to 3.5 meters (11 ft) and 500 kilograms (1,100 lb).

Dilophosaurus

A fast meat-eater with a pair of bony crests on the top of its head. Up to 7 meters (23 ft) long and 400 kilograms (880 lb).

Stegosaurus

Plesiosaurus

It had a tiny head, gigantic plates sticking up from its back, and a clubbed tail with bony spikes. This plant-eater grew up to nine meters (30 ft) long and weighed up to four metric tons.

Brachiosaurus

2

A gigantic plant-eater, up to 23 meters (75 ft) in length and 35 metric tons in weight. Distinctive features are the long neck, tiny head, and front legs longer than the rear ones.

Plants of the Jurassic

Gymnosperms, including **CYCADS (1), CONIFERS (2), AND GINKGOS (3),** continued to thrive and diversify. There were still plenty of spore-producing plants like **FERNS (4)** and towering **FERN TREES (5).** The first **ANGIOSPERMS,** flowering plants that reproduce with seeds enclosed in fruits, started to appear.

Pteranodon

Not actually true dinosaurs, the **PTEROSAURS** ("winged lizards") were closely related to dinosaurs. Pteranodon hunted at sea, mostly for fish, and had a wingspan of up to seven meters. Up to 50 kilograms (110 lb).

Triceratops

The largest dinosaur from the group of horn-bearing planteaters, up to nine meters (30 ft) long and 12 metric tons in weight. It carried three horns on its skull and had a broad bony frill to protect its neck.

CRETACEOUS PERIOD LIFE

145 TO 66 MILLION YEARS AGO

The dinosaurs reached their peak diversity and population. This period ended with a huge event that caused the dinosaurs to go extinct.

Tyrannosaurus rex

The most famous dinosaur of all! A ferocious meat-eater with powerful teeth. Grew to over 13 meters (43 ft) in length and eight metric tons in weight.

Going out with a bana"

Plants of the Cretaceous

The ANGIOSPERMS, which means "enclosed seed," became the dominant group of plants. This includes MAGNOLIAS (1), PINDO PALMS (2), GUNNERA ("DINOSAUR FOOD") (3), WATER LILIES, and EARLY GRASSES. REDWOOD TREES (4), huge conifers, appeared at the very end of the Cretaceous period.

NEXT-LEVEL CHALLENGES

Try these experiments on your own!

 Look up other living things that lived in each geologic period and add them to the diorama.
Create your own fossil model by pressing shells and leaves into clay.

3. Make your own excavation activity by casting small objects in plaster and digging them out.

PLAY IT

FORWARD!

This kit was completed by:



Scan this QR code to KEEP THE WOW ROLLING with additional educational resources related to this item.

Write your name(s) in the spaces below.

When you are done playing and learning with this toy, we encourage you to pass it on to another curious kid!

Grown-ups, elevate your audio experience by trying WONDERY+

Х



- Discover exclusive podcasts made for the whole family.
- Enjoy early access to new episodes and skip the ads on many of your favorite shows.
- Have fun learning, spark conversations, and let imaginations soar!

Don't miss out – subscribe now and let the adventure begin!



