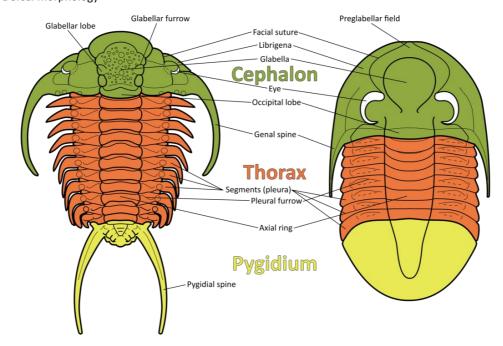
## TRILOBITES: AN INTRODUCTION

## **TRILOBITES**

Dorsal morphology



Key features of trilobites (image from Wikimedia Commons, produced by Frederik Lerouge)

Trilobites are some of the most interesting and important creatures found in the fossil record. They were arthropods (the group that includes insects, spiders, crabs and centipedes) that lived in seas and oceans between ~521 and ~252 million years ago. The name 'trilobite' refers to the three lobes running from head-to-tail through their body. As shown in the figure, they also had three distinctive body regions: the head (cephalon), body (thorax), and tail (pygidium). Trilobites were unusual arthropods, having a mineralized exoskeleton, and were one of the first animal groups to evolve complex eyes.

More than 20,000 species of trilobites have been identified in the fossil record. They evolved in the Cambrian period of geological time, and were particularly diverse during that, and the subsequent Ordovician period. Many families died out in the late Ordovician mass extinction, ~444 million years ago, and many more in the late Devonian mass extinction, around 359 million years ago. The final trilobites disappeared during the end-Permian mass extinction. Almost 270 million years wasn't a bad run, though!

For all manner of fabulous trilobite facts and figures, you can't do better than Sam Gon III's website, <a href="www.trilobites.info">www.trilobites.info</a>.



## TRILOBITES: AN INTRODUCTION

## The GeoEd 'Trilobite Collection'

The GeoEd 'Trilobite Collection' comprises 13 museum-quality replicas, handmade in The Fossil Shop in Scarborough. The specimen list is as follows:

Code	Species name	Named by	Age	Where from?
ST 9.1	Sphaerexochus mirus	Beyrich, 1845	Silurian	Malvern, UK
ST 1.0	Calymene blumenbachii	Brongniart,	Silurian	Dudley, UK
		1817		
DT 7.0	Cyphaspis	Goldfuss, 1843	Devonian	Gees, Germany
	ceratophthalma			
ST 8.0	Leonaspis coronata	Salter, 1853	Silurian	Dudley, UK
OT 2.0	Onnia superba	Bancroft, 1929	Ordovician	Shropshire, UK
ST 16.2	Hemiarges scutalis	Salter, 1873	Silurian	Malvern, UK
ST 6.3	Acaste downingiae	Murchison,	Silurian	Dudley, UK
		1839		
OT 3.1	Asaphus cornutus	Pander, 1830	Ordovician	Russia
OT 15.0	Cybeloides girvanensis	Reed, 1906	Ordovician	Scotland
TT 1.0	Geragnostus callavei	Raw, 1906	Ordovician	Shropshire, UK
CAT 1.1	Phillipsia kellii	Portlock, 1843	Carboniferous	Yorkshire, UK
ST 3.11	Encrinurus tuberculatus	Buckland, 1836	Silurian	Dudley, UK
ST 32.0	Cybantyx anaglyptos	Lane & Thomas,	Silurian	Herefordshire,
		1978		UK

If you're interested in learning more about trilobites, we offer an online 'Introduction to Trilobites' course, comprising three 1-hour classes in successive weeks. The GeoEd 'Trilobite Collection' is used as the teaching set for the course.

For details on all the online classes and events we run, please visit: <a href="https://hiddenhorizons.co.uk/collections/online-events">https://hiddenhorizons.co.uk/collections/online-events</a>

