Mature on your doorstep

Guide to Fossil Groups

Fossils can be formed when a plant or animal is buried for millions of years and becomes replaced by minerals. Use this guide to find out more about each type of animal: when it lived, what it ate, and which major group (or Phylum) it belonged to.

Find more nature guides or get in touch with our museum scientists for help with identification: museum.wales/collections/on-your-doorstep

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Crinoids

Phylum: Echinodermata

Habitat: Marine

Date: 480 millio

480 million years ago to

the present day

Crinoids (sea-lilies) have a long stalk with a small cup-shaped body on top. Many tentacle-like arms filter their food from the sea water. Crinoid skeletons often break up after death, so only small stem sections are found. Complete animals can be up to a metre tall.

Belemnites

Phylum: Mollusca (Cephalopoda)

Habitat: Marine

Date: 230 - 66 million years ago

Bullet-like belemnites are common fossils, but are only the solid inner parts of the animal which looked much like a squid. They were swimming predators, eating crustaceans and other molluscs. Size from 3 cm to 70 cm long.

Corals

Extinct

Phylum: Cnidaria **Habitat**: Marine

Date: 535 million years ago to

the present day

Corals may be either solitary or colonial, and sometimes form reefs. They are filter-feeders attached to the sea-bed. The individual soft-bodied polyps may be from 1 mm to 12 cm across. Colonies may grow to several metres across.



Gastropods

Phylum: Mollusca (Gastropoda)

Habitat: Marine, freshwater & land

Date: 500 million years ago to

the present day

Gastropods, or snails, usually live in a coiled shell. They have many different feeding methods, from grazing to predation. Size from less than 1 mm to 90 cm



Echinoids

Phylum: Echinodermata

Habitat: Marine

Date: 450 million years ago to

the present day

Commonly known as seaurchins. They move slowly over the seabed grazing on algae. Most varieties have spines which can also be found as fossils. Size from 3 to 30 cm.



Ichthyosaurs

Extinct

Phylum: Vertebrata (Reptilia)

Habitat: Marine

Date: 250 - 90 million years ago

Ichthyosaurs were active predators in the sea whilst dinosaurs lived on land. They used their tail and paddles to swim, and had huge eyes. Usually only single teeth or bones are found as fossils. Complete animals could be from 70 cm to 20 metres long.