# **Rocks and Fossils**

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### **Life Before Us**

Ammonite
Free-swimming extinct marine creature with varied shell styles. Commonly known as 'Snakestones'. Ammonites died out during the Cretaecous period approximately 70,000,000 years ago. They were closely related to the present-day Nautilus.  Age: 70,000,000 – 225,000,000 years.
Trilobite
An extinct sea creature with flattened segmented body. So named from the three (tri) parts (lobes) of their body – head, thorax and pygidium. Age: 250,000,000 – 550,000,000 years.
Gastropod
Soft-bodied land or aquatic creature with hard and normally spirally-coiled shell. Common fossils in most Caenozoic rocks and clays.  Age: Present day – 550,000,000 years
Echinoid
A bottom-living marine creature with shell made up from small plates covered with moveable spines. Fossil Echinoids are seldom found with spines still attached. The three main types are 'biscuit urchins', 'heart urchins' and 'regular sea urchins'.  Age: Present day – 450,000,000 years.

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	Graptolite
	Extinct marine organism named from the Greek words <i>graptos</i> (painted) <i>lithos</i> (stone). They are common fossils in some Palaezoic rocks.  Age: 335,000,000 – 550,000,000 years.
	Plant
	Represented here by fern remains from the Carboniferous period. It is from these, and trees of the same age, that coal was formed some 300,000,000 years ago.  Age: Present day – 400,000,000 years.
	Brachiopod
	A two-valved marine shell-fish of various shapes. Most Brachiopods were anchored onto rocks on the sea bed by the use of a fleshy stalk which protruded from the small hole in the larger (pedicle) valve.  Age: Present day – 525,000,000 years.
	Shark tooth
To the second se	A common fossil in some Caenozoic rocks and clays. The largest are those of Carcharodon – a 15-metre long shark with jaws opening to almost 2 metres.  Age: Present day – 400,000,000 years.

### **Life Before Us**

Belemnite
Named from the Greek word belemnon, meaning dart or javelin. They were extremely common in the Jurassic and Cretaceous periods. The creature resembled our present-day cuttlefish.  Age: 70,000,000 – 200,000,000 years.
Coral
Bottom-dwelling marine animal which secretes calceroushard parts. Usually found as single 'horn-shaped' specimens or in colonies.  Age: Present day – 450,000,000 years.
Crinoid
Often called 'Sea Lily', this is an animal not a plant. It consists of three main parts, calyx (a cup-like cavity), stem and root system. It is represented here by fragments from the stem.  Age: Present day – 450,000,000 years.
Bivalve
A marine creature with hinged, two-valved shell enclosing its soft parts. Some are slow-moving, bottom-dwelling types, some (oysters) attach themselves to rocks and others (e.g. pectens) are free swimming.  Age: Present day – 500,000,000 years.
Coral
A sectioned example showing the internal structure.  Age: 330,000,000 years.

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#### **Rock Key**

