



Exploring the World of Science

Official Fossil List

KINGDOM PROTOZOA

Phylum Foraminifera (Forams)

- 1) Order Fusulinida (Fusulinids)
- 2) Genus *Nummulites*

KINGDOM ANIMALIA

INVERTEBRATES:

Phylum Porifera (Sponges)

- 3) Genus *Astraeospongia* (calcareous sponge)
- 4) Genus *Hydnoceras* (glass sponge)

Phylum Bryozoa

(Growth forms: branching, massive, fenestrate)

- 5) Genus *Archimedes*
- 6) Genus *Rhombopora*

Phylum Hemichordata

- 7) Class Graptolithina (Graptolites)

Phylum Cnidaria

Class Anthozoa (Horn & Colonial Corals)

- 8) Genus *Favosites*
- 9) Genus *Halysites*
- 10) Genus *Heliophyllum*
- 11) Genus *Hexagonaria*
- 12) Genus *Septastraea*

Phylum Arthropoda

- 13) Subphylum Crustacea (shrimp, lobster, crabs, barnacles, **ostracods**)
- 14) Order Eurypterida (Eurypterids)
- 15) Class Insecta (Insects)
- Class Trilobita (Trilobites)
- 16) Genus *Cryptolithus*
- 17) Genus *Calymene*
- 18) Genus *Elrathia*
- 19) Genus *Isotelus*
- 20) Genus *Eldredgeops* (formerly *Phacops*)

Phylum Brachiopoda

Class Inarticulata:

- 21) Genus *Lingula*

Class Articulata:

- 22) Genus *Atrypa*
- 23) Genus *Composita*
- 24) Genus *Juresania*
- 25) Genus *Leptaena*
- 26) Genus *Mucrospirifer*
- 27) Genus *Platystrophia*
- 28) Genus *Rafinesquina*
- 29) Order *Rhynchonellida*

Phylum Mollusca

Class Bivalvia (**clams, oysters, mussels**)

- 30) Genus *Exogyra*
- 31) Genus *Gryphaea*
- 32) Genus *Pecten*
- 33) Genus *Glycymeris*

Class Cephalopoda

34) Subclass Ammonoidea (**Ammonoids**)
(**Goniatites, Ceratites, Ammonites**)

- 35) Genus *Baculites*
- 36) Genus *Dactylioceras*

Subclass Coleoidea

Order Belemnitida (**Belemnites**)

- 37) **Genus *Belemnitella***

Subclass Nautiloidea (Nautiloids)

- 38) Genus *Nautilus*
- 39) Genus *Orthoceras*

Class Gastropoda (Snails)

- 40) Genus *Conus*
- 41) Genus *Cypraea*
- 42) Genus *Platyceras*
- 43) Genus *Turritella*
- 44) Genus *Worthenia*

Phylum Echinodermata

45) Class Asteroidea (**Starfish**)

Class Blastoidea

- 46) Genus *Pentremites*

47) Class Crinoidea (stems, columns, calyxes)

48) Class Echinoidea (**regular or irregular echinoids**
including sea urchins, sand dollars and heart urchins)

49) Class Ophiuroidea (brittle stars)

VERTEBRATES:

Phylum Chordata

Subphylum Vertebrata

Class Placodermi (Armored Jawed Fish)

- 50) Genus ***Bothriolepis***
- 51) Genus ***Dunkleosteus***

Class Chondrichthyes (Cartilaginous Fish)

- 52) Superorder Selachimorpha (Sharks)
- 53) Genus *Carcharodon*
- 54) **Genus *Carcharocles***

(formerly *Carcharodon*)

- 55) **Species *C. megalodon***

56) Superorder Batoidea (Rays)

Note: Numbers indicate that members of that taxon rank should be identifiable to that level. For ranks not underlined, indented ranks are in the rank above it.



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- Superclass Osteichthyes (Bony Fish)
57) Class Actinopterygii (ray-finned)
Class Sarcopterygii (lobe-finned)
58) Order Coelacanthiformes (Coelacanth)
59) Genus *Tiktaalik*
- Class Amphibia (**Amphibians**)
60) Genus *Acanthostega*
61) Genus *Eryops*
62) Genus *Diplocaulus*
- Class Reptilia (**Reptiles**)
63) Order Ichthyosauria (Ichthyosaurs)
64) Family Mosasauridae (Mosasaurs)
65) Order Plesiosauria (Plesiosaurs & Pliosaurus)
66) Order Pterosauria (Pterosaurs)
- Clade Dinosauria (**Dinosaurs**)
Order Saurischia (lizard-hipped)
67) Genus *Allosaurus*
68) **Genus *Diplodocus***
69) Genus *Coelophysis*
70) **Genus *Dilophosaurus***
71) Genus *Plateosaurus*
72) Genus *Velociraptor*
73) Genus *Tyrannosaurus*
- Order Ornithischia (bird-hipped)
74) Genus *Iguanodon*
75) Genus *Parasaurolophus*
76) Genus *Stegosaurus*
77) Genus *Triceratops*
78) **Genus *Ankylosaurus***
79) Genus *Dracorex*
- Class Aves (**Birds**)
80) Genus *Archaeopteryx*
81) **Genus *Titanis* (Terror Bird)**
- Clade Synapsida
Mammal-like reptiles
82) Genus *Dimetrodon* (**elyosaurs**)
83) Genus *Lystrosaurus* (**therapsids**)
- Class Mammalia (**Mammals**)
84) Genus *Basilosaurus* (**prehistoric whale**)
85) Genus *Equus* (**modern horse**)
Genus *Homo* (**human**)
86) Species *H. neanderthalensis*
87) Genus *Mammuthus* (Mastodon)
88) Genus *Mammuthus* (Mammoth)
89) Genus *Megacerops* (**Brontothere**)
90) Genus *Mesohippus* (**three-toed horse**)
91) Genus *Smilodon* (**saber-toothed cat**)

KINGDOM PLANTAE

Phylum Anthophyta (Flowering plants)

- 92) Genus *Acer*
93) Genus *Populus*
94) Genus *Platanus*

Phylum Ginkgophyta (Ginkgos)

- 95) Genus *Ginkgo*

Phylum Lycopodiophyta (Club Mosses)

- 96) Genus *Lepidodendron* (scale tree)

Phylum Pinophyta (Conifers)

- 97) Genus *Metasequoia*

98) Phylum Sphenophyta (Horsetails)

- 99) Genus *Calamites*
100) Genus *Annularia*

Phylum Pteridospermatophyta (Seed Ferns)

- 101) Genus *Glossopteris*

Phylum Pteridophyta (True Ferns)

- 102) Genus *Pecopteris*

OTHER

Trace Fossils:

- Trails, Tracks, Trackways,
Borings, Burrows, Tubes
Predation marks, Repair scars
Coprolites

Stromatolites

Amber/copal

Petrified wood

Sedimentary Rocks

- Coquina
Limestone (**Chalk/Fossil limestone**)
Sandstone
Shale
Mudstone/Siltstone

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