



FOSSIL LIST

See General Rules, Eye Protection & other Policies on www.soinc.org as they apply to every event.

KINGDOM PROTOZOA

Phylum Foraminifera (Forams) *

Order Fusulinida (Fusulinids)*

Order Rotaliida*

Genus *Nummulites**

KINGDOM ANIMALIA

SPONGES (Phylum Porifera)

Genus *Astraeospongia* (calcareous sponge)

Genus *Hydnoceras* (glass sponge)*

BRYOZOANS (Phylum Bryozoa)

(Growth forms: branching, massive, fenestrate)

Genus *Archimedes*

Genus *Rhombopora*

GRAPTOLITES (Phylum Hemichordata)*

Order Dendroidea (benthic graptolites)

Order Graptoloidea (planktic graptolites)

CORALS (Phylum Cnidaria)

Order Tabulata (tabulate corals)

Genus *Favosites*

Genus *Halysites**

Order Rugosa (rugose corals)

Genus *Heliophyllum* (horn coral)

Genus *Hexagonaria*

Order Scleratinia (stony corals)

Genus *Septastrea*

ARTHROPODS (Phylum Arthropoda)

Subphylum Crustacea (shrimp, lobster, crabs, barnacles, ostracods)*

Subphylum Chelicerata

Order Eurypterida (Eurypterids)

Class Insecta (Insects)

Class Trilobita (Trilobites)

Genus *Cryptolithus*

Genus *Calymene*

Genus *Elrathia*

Genus *Isotelus**

Genus *Eldredgeops* (formerly *Phacops*)

BRACHIOPODS (Phylum Brachiopoda)

Class Inarticulata

Genus *Lingula*

Class Articulata

Genus *Atrypa*

Genus *Composita*

Genus *Juresania**

Genus *Leptaena*

Genus *Mucrospirifer*

Genus *Platystrophia*

Genus *Rafinesquina*

Order Rhynchonellida

MOLLUSKS (Phylum Mollusca)

Class Bivalvia (clams, oysters, mussels)

Genus *Exogyra*

Genus *Gryphaea*

Genus *Pecten*

Genus *Glycymeris*

Genus *Astarte*

Genus *Nucula*

Class Cephalopoda

Order Goniatitida (goniatites)*

Order Ceratitida (ceratites)*

Order Ammonitida (ammonites)

Genus *Baculites*

Genus *Dactylioceras*

Order Belemnitida (Belemnites)

Genus *Belemnitella*

Order Nautilida (Chambered Nautilus)

Order Orthocerida ("Orthoceras")

Class Gastropoda (Snails)

Genus *Conus*

Genus *Cypraea*

Genus *Platyceras*

Genus *Turritella*

Genus *Worthenia*

ECHINODERMS (Phylum Echinodermata)

Class Asteroidea (Starfish)*

Class Blastoidea

Genus *Pentremites*

Class Crinoidea (stems, columns, calyxes)

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

Class Ophiuroidea (brittle stars)*

VERTEBRATES (Phylum Chordata)

Superclass Agnatha (Jawless Fish)
(Ostracoderms)*

Class Placodermi (Armored Jawed Fish)

Genus *Bothriolepis*

Genus *Dunkleosteus*

Class Chondrichthyes (Cartilaginous Fish)

Superorder Selachimorpha (Sharks)

Genus *Otodus*

Genus *Carcharocles* (formerly *Carcharodon*)

Species *C. megalodon*

Superorder Batoidea (Rays)*

Superclass Osteichthyes (Bony Fish)

Class Actinopterygii (ray-finned)

Genus *Knightia*

Genus *Xiphactinus**

Class Sarcopterygii (lobe-finned)

Genus *Eusthenopteron*

Genus *Latimeria* (Coelacanth)

Genus *Tiktaalik*

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FOSSIL LIST (CONT.)

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Class Amphibia (**Amphibians**)

Genus *Acanthostega*
Genus *Eryops*
Genus *Diplocaulus*

Class Reptilia (**Reptiles**)

Order Crocodylia (crocodiles)*

Order Testudines (turtles)*

Order Ichthyosauria (Ichthyosaurs)

Order Squamata

Family Mosasauridae (Mosasaurs)

Order Plesiosauria (Plesiosaurs & Pliosaurus)

Order Pterosauria (Pterosaurs)

Clade Dinosauria (Dinosaurs)

Order Saurischia (lizard-hipped)

Suborder Theropoda

Genus *Allosaurus*
Genus *Coelophysis*
Genus *Dilophosaurus*
Genus *Spinosaurus**
Genus *Tyrannosaurus*
Genus *Velociraptor*

Suborder Sauropodomorpha

Genus *Brachiosaurus*
Genus *Diplodocus*
Genus *Patagotitan**
Genus *Plateosaurus*

Order Ornithischia (bird-hipped)

Infraorder Ankylosauria

Genus *Ankylosaurus*

Infraorder Ceratopsia

Genus *Triceratops*

Genus *Protoceratops**

Infraorder Ornithopoda

Genus *Iguanodon*
Genus *Parasaurolophus*
Genus *Maiasaura*

Infraorder Pachycephalosauria

Genus *Dracorex*

Infraorder Stegosauria

Genus *Stegosaurus*

Class Aves (Birds)

Genus *Archaeopteryx*
Genus *Titanis* (Terror Bird)
Genus *Ichthyornis**

Clade Synapsida

Mammal-like Reptiles

Genus *Dimetrodon* (pelycosaurs)
Genus *Lystrosaurus* (therapsids)

Class Mammalia (Mammals)

Genus *Basilosaurus* (prehistoric whale)

Genus *Equus* (modern horse)

Genus *Australopithecus* (hominin)*

Genus *Homo* (hominin)

Species *H. neanderthalensis*

Species *H. erectus**

Species *H. sapiens*

Genus *Mammut* (Mastodon)

Genus *Mammuthus* (Mammoth)

Species *M. primigenius*

(Woolly Mammoth)

Genus *Megacerops* (Brontothere)

Genus *Meshippus* (three-toed horse)

Genus *Smilodon* (saber-toothed cat)

KINGDOM PLANTAE

FLOWERING PLANTS (Phylum Anthophyta)

Genus *Acer* (Maple)

Genus *Populus* (Aspen & Poplar)

Genus *Platanus* (Sycamore)

GINKGOS (Phylum Ginkgophyta)

Genus *Ginkgo*

CLUB MOSSES (Phylum Lycopodiophyta)

Genus *Lepidodendron* (scale tree)

CONIFERS (Phylum Pinophyta)

Genus *Metasequoia*

HORSETAILS (Phylum Sphenophyta)

Genus *Calamites* (form leaf genus: *Annularia*)

SEED FERNS (Phylum Pteridospermatophyta)

Genus *Glossopteris*

TRUE FERNS (Phylum Pteridophyta)

Genus *Psaronius* (form leaf genus: *Pecopteris*)

ADDITIONAL EARTH MATERIALS

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

Chert

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