

GENERAL FOSSIL INFORMATION

Invertebrate Fossils of Kansas

<http://www.kgs.ku.edu/Publications/PIC/pic24.html>

Invertebrate Fossils – Kentucky Geological Society

<http://www.uky.edu/KGS/fossils/invertebrate.htm>

Invertebrate Fossils – Sam Noble Museum (Oklahoma Museum of Natural History)

<https://samnoblemuseum.ou.edu/common-fossils-of-oklahoma/invertebrate-fossils/>

Five Facts: Megalodon – Florida Museum

<https://www.floridamuseum.ufl.edu/science/five-facts-megalodon/>

Prehistoric Wildlife – featuring articles on dinosaurs, marine reptiles, pterosaurs, birds, mammals, fish and more

<http://www.prehistoric-wildlife.com/listings/a.html>

Getting into the Fossil Record

Educational module for students in grades 5-8 and 9-12 that teaches how fossils form.

<http://www.ucmp.berkeley.edu/education/explorations/tours/fossil/index.html>

Learning from the Fossil Record

Links to educational resources, classroom activities, educational resources and geologic time scale. Sponsored by the University of California Museum of Paleontology (UCMP) at Berkeley.

<http://www.ucmp.berkeley.edu/fosrec/>

Virtual Fossil Museum

The Virtual Fossil Museum is an educational resource dedicated to fossils. High-quality pictures of fossils are presented that are organized by fossil sites and systematics. Geological history, paleobiology, phylogenetics and evolutionary biology are among information provided.

<http://www.fossilmuseum.net/>

Fossils Facts and Finds

Site developed by two teachers, Doug and Claudia Mann. Includes info on fossil formation, fossil identification, extreme fossil facts, a fossil gallery, and a section on invertebrate and Vertebrate fossils.

<http://www.fossils-facts-and-finds.com/index.html>

Dinosaur Information Pages: Enchanted Learning

<http://www.enchantedlearning.com/subjects/dinosaurs/info/a.shtml>

Tiktaalik roseae – University of Chicago website about the discovery of the fossil fish known as the “fishapod” with videos, image gallery, and resources.

<http://tiktaalik.uchicago.edu/index.html>

Dinosaur Information Pages: Enchanted Learning

<http://www.enchantedlearning.com/subjects/dinosaurs/info/a.shtml>

Dinosaurs

Smithsonian National Museum of Natural History site including anatomy, behavior, extinction theories, ancestors, and basics.

<http://paleobiology.si.edu/dinosaurs/info/everything/what.html>

Fossil Guy – website authored by Jayson Kowinsky, an avocational paleontologist, with information on Prehistoric Animals, Fossil Locations, Identification sheets, articles and more.

https://www.fossilguy.com/id_papers/index.htm

Paleolist - links to websites and educational resources about paleontology.

<http://www.paleozoic.org/paleolinks.htm>

IDENTIFICATION

Fossil Facts and Finds – various information on fossils, how they are formed, types of invertebrate and vertebrate fossils, with links to other websites.

http://www.fossils-facts-and-finds.com/fossil_identification.html

Fossil Identification – invertebrate, major groups

<https://www.fossilidentification.org/>

Virtual Petrified Museum – outstanding resource, much of which is aligned to previous Science Olympiad fossils events. Information included on taxonomy, anatomy, relative and absolute dating, correlation, and all fossil groups from the Science Olympiad list. Several tests from 2009 – 2011 are provided.

<http://petrifiedwoodmuseum.org/SciOly.htm>

University of California Museum of Paleontology – Berkeley – online collections, educational resources, links to useful websites

<http://www.ucmp.berkeley.edu/>

The Paleontology Portal – Excellent site with Fossil Gallery, Famous Fossil Locations, K-12 resources sponsored by the University of California Museum of Paleontology.

<http://paleoportal.org/>

Fossils of Kentucky

Extensive information about fossils from Kentucky, mostly invertebrates, from the Kentucky Geological Survey.

<http://www.uky.edu/KGS/fossils/>

Cochise College Photos of Fossils – website from Cochise College in Arizona; contains over 1300 photos of fossils; copyright free for non-commercial use

<http://skywalker.cochise.edu/wellerr/fossil/fossilL.htm>

EXTINCTIONS

The Big Five Major Extinctions - Cosmos -the Science of Everything
<https://cosmosmagazine.com/palaeontology/big-five-extinctions>

Mass Extinctions – National Geographic
<https://www.nationalgeographic.com/science/prehistoric-world/mass-extinction/>

Mass Extinction – American Museum of Natural History
<https://www.amnh.org/exhibitions/dinosaurs-ancient-fossils-new-discoveries/extinction/mass-extinction/>

Quaternary Extinction Event – Wikipedia
https://en.wikipedia.org/wiki/Quaternary_extinction_event

Megafauna and Ecosystem Function from the Pleistocene to the Anthropocene
– Proceedings of the National Academy of Sciences
<http://www.pnas.org/content/113/4/838>

EVOLUTION

Evolution of Fish – Wikipedia
https://en.wikipedia.org/wiki/Evolution_of_fish

Tiktaalik – Understanding Evolution
https://evolution.berkeley.edu/evolibrary/news/060501_tiktaalik

Amphibians and Reptiles – Independent
<https://www.independent.co.uk/news/world/world-history/amphibians-and-reptiles-how-terrestrial-living-was-transformed-by-the-evolution-of-better-adapted-1548123.html>

Origin of Birds
https://evolution.berkeley.edu/evolibrary/article/evograms_06

Evolution of Whales – Understanding Evolution, Berkeley
https://evolution.berkeley.edu/evolibrary/article/evograms_03

Evolution of the Horse - Wikipedia
https://en.wikipedia.org/wiki/Evolution_of_the_horse

Evolution of Plants
<https://antranik.org/the-evolution-of-plants/>

GEOLOGIC TIME

Understanding Geologic time – Berkeley – learning activity for students

<http://www.ucmp.berkeley.edu/education/explorations/tours/geotime/guide/index.html>

Geologic Time Scale – Geology.com

<https://geology.com/time.htm>

Relative Dating – Wikipedia

https://en.wikipedia.org/wiki/Relative_dating

Absolute Dating – Wikipedia

https://en.wikipedia.org/wiki/Absolute_dating

VIDEOS

Geologic Time Scale & Geologic History

Brief History of Geologic Time – PBS Eons

<https://www.youtube.com/watch?v=rWp5ZpJAIAE>

Ancient Life

BBC – Walking with Monsters – Life Before Dinosaurs 1. (Cambrian – Devonian)

https://www.youtube.com/watch?v=-kYv_rbZVVc

BBC – Walking with Monsters – Life Before Dinosaurs 2

(Carboniferous – Permian)

<https://www.youtube.com/watch?v=Gwo62OmuUGA>

BBC – Walking with Dinosaurs Series

The 6 Craziest Extinctions Ever

<https://www.youtube.com/watch?v=wissIOikrqc>

Geologic History and Paleontological Events

PBS Eons – numerous short videos on geologic history and major paleontological events

<https://www.youtube.com/watch?v=rWp5ZpJAIAE>

Evolutionary Transitions

Finding Tiktaalik

<https://www.youtube.com/watch?v=yvDQCa7rleI>

<https://www.youtube.com/watch?v=daD37TsscU>

Your Inner Fish: The Series. – videos and resources

HHMI – Biointeractive

Part 1 - Inner Fish (Fish to Tetrapods)

Part 2 - Reptiles to Mammals

Part 3 - Your Inner Monkey (Human Evolution)

<https://www.hhmi.org/biointeractive/your-inner-fish-series>

Origin of Birds – HHMI Biointeractive

<https://www.youtube.com/watch?v=z4nuWLd2ivc>

HHMI – Biointeractive

<https://www.hhmi.org/biointeractive/great-transitions>

Evolution of Whales Animation – Smithsonian Institution

<https://ocean.si.edu/through-time/ancient-seas/evolution-whales-animation>

Search YouTube and the internet for specific topics.