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CAN YOU DIG IT? [link to chat room](#)

You will be asked various questions regarding fossils & paleontology. Questions will consist of the following topics:

- 1.) identification of fossils from specimen or picture
- 2.) questions regarding the taxonomy and/or general ecology of the fossil when it was alive (ex. Was this organism an herbivore, carnivore or omnivore?/Was this organism aquatic or terrestrial?).
- 3.) The geologic eras & periods and which fossils are indicative of specific eras/periods
- 4.) Fossil evidence, fossil bearing rock, the process of fossilization & the dating of fossils
- 5.) General questions regarding anatomy/physiology, ecology, & periods dominant by the various dinosaurs & their relatives:
- 6.) The evolutionary history of fish, amphibians, reptiles, birds, mammals & plants (i.e. their earliest relatives & their evolutionary relationships to one another)

There will be approximately 25 stations with 2 questions per station. You will be given **1 minute** at each station and rotate through them all.

RESOURCES ARE PERMITTED! (ex. Audubon, Peterson, etc.)

Score will be based upon the number correct out of 50

Questions? contact Aaron Galus at St. John's Prep (aqalus@stjohnsprep.org)

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FOSSILS TO FOCUS ON

ANIMALS

Porifera

Genus: *Astylospongia*

Genus: *Cliona*

Cnidaria

Subclass: Rugosa (horn corals)

Subclass: Tabulata (colonial corals)

Bryozoa

Genus: *Archimedes*

Brachiopoda

Class: Inarticulata

Genus: *Lingula*

Class: Articulata

Genus: *Composita*

Genus: *Atrypa*

Genus: *Mucrospirifer*

Mollusca

Echinodermata

Class: Blastoidea

Class: Crinoidea

Class: Echinoidea

Class: Stelleroidea

Chordata

Class: Osteichthyes/Chondrichthyes

Class: Amphibia

Genus: *Ichthyostega*

Class: Reptilia

Genus: *Hadrosaurus*

Genus: *Brachiosaurus*

Genus: *Iguanodon*

Genus: *Pachycephalosaurus*

Genus: *Stegosaurus*

Genus: *Dimetrodon*

Genus: *Triceratops*

Class: Scaphopoda

Class: Gastropoda

Genus: Turritella

Genus: Worthenia

Genus: Conus

Class: Bivalvia

Genus: Exogyra

Genus: Gryphea

Genus: Mercenaria

Class: Cephalopoda

Order(or Subclass): Nautiloidea

Order(or Subclass): Ammonoidea

Order: Belemnoidea

Arthropoda

Subclass: Eurypterida

Genus: Eurypterus

Class: Trilobita

Genus: Elrathia

Genus: Peronopsis

Class: Crustacea

Class: Insecta

Genus: Tyrannosaurus

Class: Plesiosauria

Class: Pterosauria

Class: Mammalia

Class: Aves

Genus: Archaeopteryx

PLANTS

Lycophyta/Ginkophyta

Coniferophyta/Angiosperma

Pteridophyta/Bryophyta

FOSSIL EVIDENCE

Amber/Coprolite/Petrified Wood

FOSSIL BEARING SEDIMENTARY ROCK

Shale/Mudstone/Siltstone

Limestone/Chalk

Sandstone/Greensand

Coquina

Coal