2009 NYS Science Olympiad Invitational Tournament

FOSSILS

List of Specimens

STATION 1 Mollusca (mollusks)

A. Gastropoda *(Turritella*	internal mold
B. Cephalopod/Ammonite	cast
C. Bivalve/Clam	actual remains
D. Cephalopod/Baculites	mineral replacement (pyrite)

STATION 2 Trilobita (trilobites)

A. *Elrathia*	(Cambrian)
B. enrolled trilobite	
C. *Cryptolithus*	mold of head
D. *Cryptolithus*	cast of head

STATION 3 Corals (Cnidaria)

A. Horn Coral	(solitary)
B. *Hexagonaria*	(colonial)

STATION 4 Echinodermata (echinoderms)

A. crinoid stem
B. echinoid
C. blastoid (*Pentremites)*

STATION 5 Brachiopoda (brachiopods)

A. Atrypa
B. Mucrospirifer
C. *Rafinesquina*
D. *Lingula*
E. *Juresania*

STATION 6 Cephalopoda (cephalopods)

A. Nautiloida (nautiloid)
B. Ammonoid (ammonite)
C. Nautiloid (*Orthoceras*)
D. Belemnoid (belemnite)

STATION 7 Graptolite in shale

STATION 8 Bryozoa

A. Rhombopora
B. Archimedes

STATION 9

A. bony fish skeleton

B. Shark tooth

STATION 10 Vertebrate teeth

A. Reptile tooth (Mososaur jaw with teeth)

B. Mammal jaw with teeth (oreodont)

C. Shark tooth

STATION 11 Dinosaur adaptations and preservation

A. Dinosaur bone

B. Carnivorous dinosaur tooth (*Carcharodontosaurus* tooth)

C. Herbivorous dinosaur tooth (*hadrosaur* teeth in matrix)

D. *Albertosaurus* model (theropod dinosaur)

E. *Maiasaura* model (hadrosaur dinosaur)

STATION 12 Saurischian Dinosaurs

A. *Apatosaurus* model or image

B. *Allosaurus* model or image

STATION 13 Plants and stromatolites

A. Fern or fernlike fossil

B. Stromatolite

C. Acer (Maple)

D. Metasequoia (conifer)

STATION 14 Index Fossils

Range Chart & Table provided

STATION 15 Relative Age

Geologic Profile provided

STATION SPECIMENS

STATION 1

A

B

C

D

STATION 2

A

B

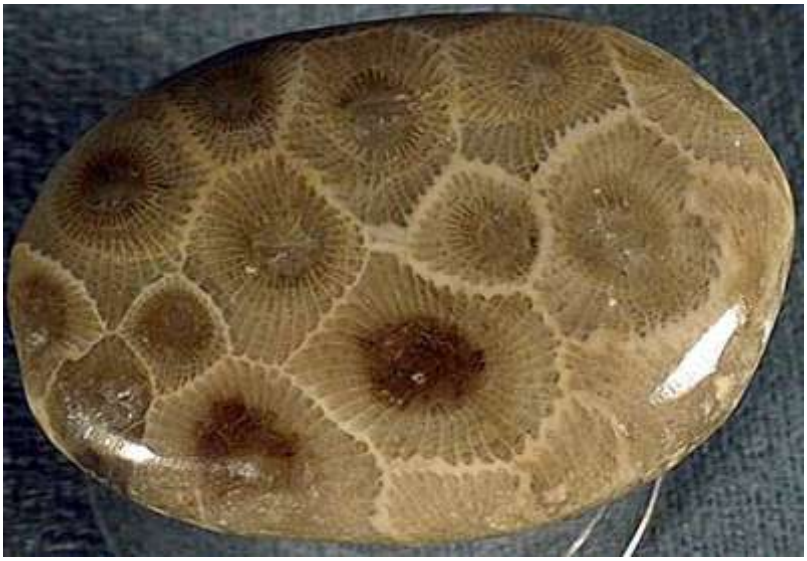
STATION 2

C (left specimen) D (right specimen)

STATION 3

A

B



STATION 4

A

B

C

STATION 5

A

B

C

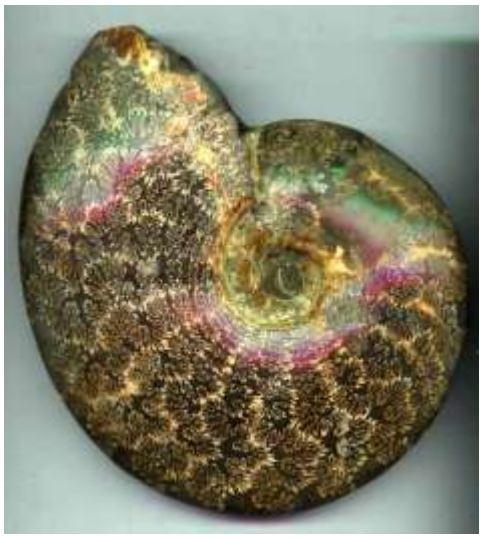
D

E

STATION 6

A

B



C

D

STATION 7

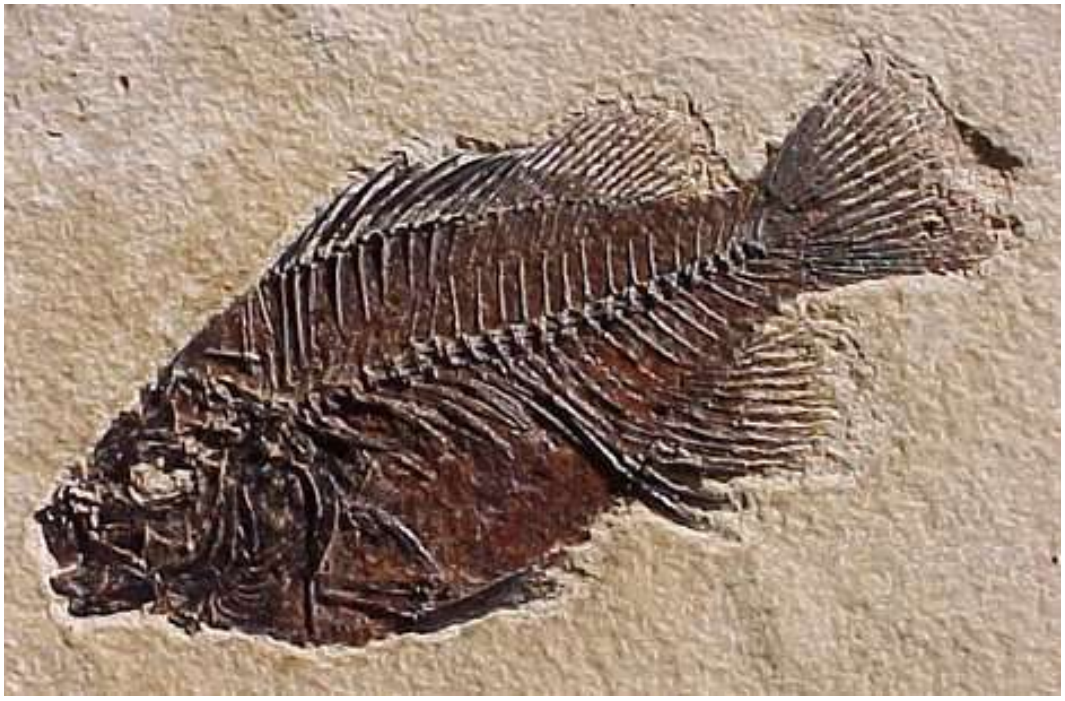
STATION 8

A

B

STATION 9

A



B

STATION 10

A

STATION 10

B

C

STATION 11

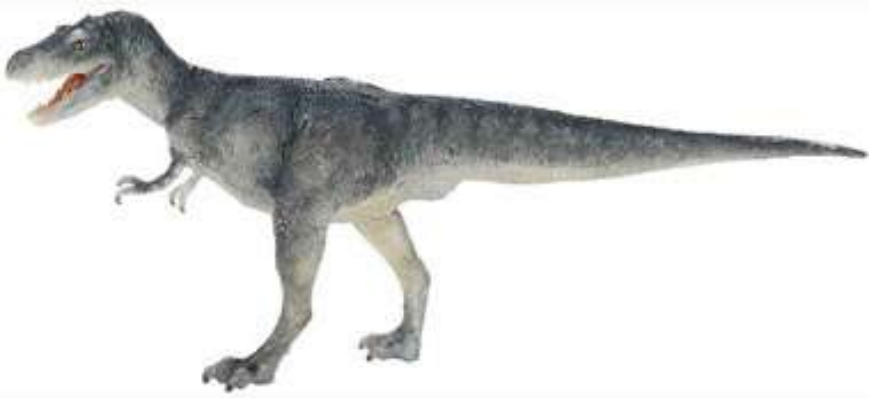
A

B

STATION 11

C

D



E

STATION 12

A

B

STATION 13

A

B

C

D