

STATION 1 -- refer to picture

Name the phylum of this specimen. Phylum: _____

What characteristics do all members of this phylum share?

- A. Exoskeleton and jointed legs
- B. They all have mineralized shells and eyes
- C. They are all marine
- D. All members of this phylum are extinct.

Although this animal lived in an ancient seas, it is most closely related to modern:

a. Lobsters b. Insects c. Scorpions d. Trilobites e. Coral

During which Geologic Era and Period did this invertebrate live?

Era _____ Period _____

TRUE OR FALSE: This animal was sessile and benthic.

STATION 3 refer to fossils in the box (or pictures if online)

What is the Phylum of all these creatures? _____

Which of these fossils is not in the same Class as the other 3 ?

A B C D

Which animal is NOT extinct ? A B C D

What is the Class and Genus of the Animal that is not in the same class as the other 3 ?

Class _____ Genus _____

TRUE OR FALSE: These creatures are scavengers and predators.

STATION 2 - refer to picture

What Phylum does this sample belong to?

Mollusca Bivalvia Brachiopoda Invertebrata

This fossil is common in upstate NY rocks and is a good index fossil for which geologic period?

Silurian Devonian Paleozoic Ordovician

The following is a living member of this phylum

Composita Pecten Atrypa Juresina none of these

TRUE OR FALSE: This pelagic animal was a filter feeder.

TRUE OR FALSE: This invertebrate has a pedicle.

STATION 4 - refer to picture

Identify each from the picture. Now circle the mobile predators.

Conus ____ Turritella ____ Halysites ____ Crustacea ____ Eldredgeops ____

From this same list, which two are most closely related

Conus Turritella Halysites Crustacea Eldredgeops

Same list again: Which from this list are alive today?

Conus Turritella Halysites Crustacea Eldredgeops

BONUS: Which of these is a Devonian Index Fossil? _____

BONUS: Which of these is a Silurian Index Fossil? _____

STATION 5 : Identify from the picture and then name the Genus.

Name these 4 invertebrates (Be sure to use the name that is assigned for this competition)

A. _____

B. _____

C. _____

D. _____

What is unique about the structure of animals from this phylum? _____

Which of these creatures is extinct? _____

STATION 6 --- *see pictures*

Identify each marine animal:

A. _____

B. _____

C. _____

D. _____

Which of these is an armored fish: A. B. C. D.

Which depict a Class of organisms now extinct A. B. C. D.

Which animal is credited with the first to
develop limbs designed for walking on
land although he likely never did so. A. B. C. D.

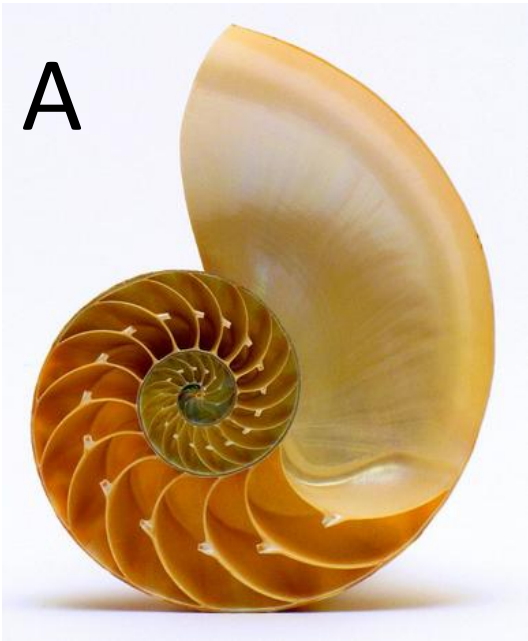
Station 1



Station 2



Station 3



A



B



C



D



E



Station 4

Station 5

A



B



C



D



STATION 6.

A



B



C



D



1. Arthropoda
 - a. Exoskeleton and jointed legs
 - b. Scorpions
 - c. Mesozoic Era, Devonian Period
 - d. False

2. Mucrospirifer Brachiopod
Devonian
Pecten is not a Brachiopod
False – not pelagic
True – Brachs have pedicle valves

- 3 Phylum – Mollusca
-- D is a gastropod
A is not extinct
D Gastropod is a Platycephalus
TRUE (scavengers/predators)

- 4 Predators - Conus (C) and Eldredgeops (D)
Closely related Conus and Turritella (B)
Alive today - Conus, Turritella and
Crustacea (A)
Devonian Index Fossil - Eldredgeops (D)
Silurian Index Fossil – Halysites (E)

5. A – Echinoidea (sea urchins here)
B - Crinoidea
C - Pentremites (blastoids)
D – Ophiuroidea (brittle star)
they are 5-sided/armed
Pentremites (blastoids) are extinct

6.
A – Eusthenopteron
B – Batoidea
C – Bothriolepis
D – Coelacanth

C is an armored fish
A and C are extinct
A was first to develop limbs that
look like they could support
walking (i.e. lobe-finned)