

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

TRUE OR FALSE: This animal was sessile and benthic.

STATION 3 refer to picture

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.

STATION 4 - refer to picture

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

Conus ___ Turritella ___ Halysites ___ Crustacea ___ Phacops ___

From this same list, which two are most closely related

Conus Turritella Halysites Crustacea Phacops

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

Conus Turritella Halysites Crustacea Phacops

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.

I was an armored fish _____ Name my genus _____

I use my pectoral fins to swim _____ Name my suborder _____

You thought I was extinct, but I was not _____ Name my order _____

I'm alive today and have triangular teeth _____ Name my suborder _____

More than one may apply

Which of these marine fish are dominately benthic feeders ? _____

Which of these are known as cartilagenous fish ? _____

My picture is not shown, but I am an armored fish that ruled the Devonian seas. _____

STATION 6 : Match the Fossil name to his Geologic Period

Dactylioceras _____

A. Cretaceous

Pecten _____

B. Silurian

Archimedes _____

C. Cambrian

Mucrospifer _____

D. Jurassic

Orthoceras _____

E. Permian

Belemnitella _____

F. Devonian

Elrathia _____

G. Recent

STATION 7

Which of the following statements is/are false?

- A. Bivalves went extinct in the Cretaceous
- B. All cephalopods are pelagic
- C. Nautiloids are found in the Gulf of Mexico.
- D. Many Gastropods have operculum.
- E. Conus are predators that live today.
- F. Turitella are benthic filter feeders
- G. Leptanaea are Arthropods.
- H. 80% of all living organisms today are Arthropods.
- I. Cephalopods disperse poison from their operculum.

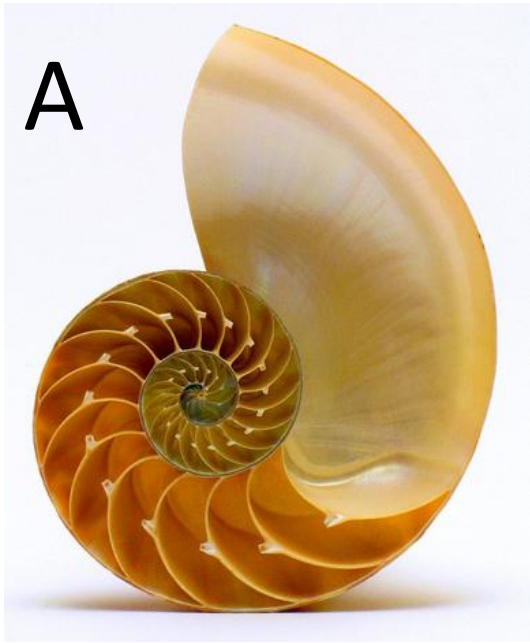
Station 1



Station 2



Station 3



A



B



C



Station 4

D

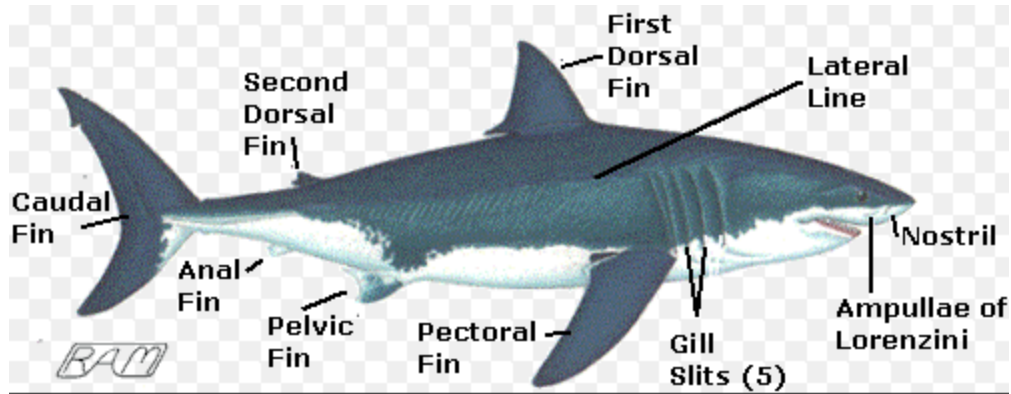


E



Station 5

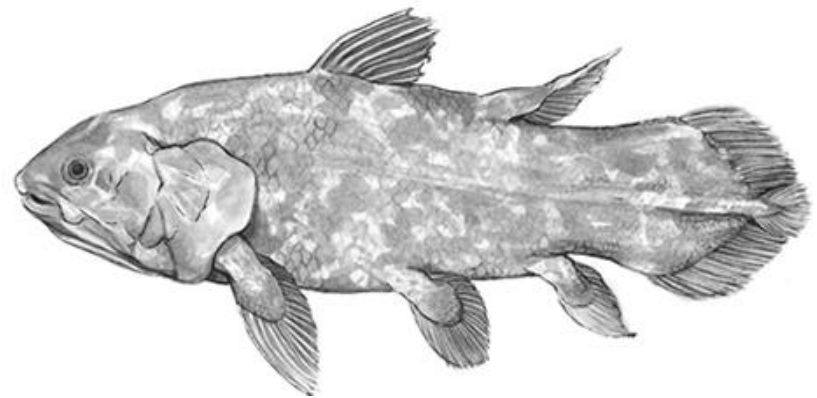
A



B



D



C



1. Arthropoda
 - a. Exoskeleton and jointed legs
 - b. Scorpions
 - c. False

2. Mucrospirifer Brachiopod
Devonian
Pecten is not a Brachiopod
False – not pelagic

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

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

5. C – Bothriolepis
B - Batoidea
D - Coelacanth
A - Selachimporpha
C are marine and benthic
A, B are cartilageneous
Dunklesteus is not shown

6.

Dactylioceras	D
Pecten	G
Archimedes	E
Mucrospirifer	F
Orthoceras	B
Belemnitella	A
Elrathia	C

7.

A – F
B – T
C – T
D – T
E – T
F – T
G – F
H – T
I - F