

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.

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 page 7 for pictures*

Identify the Phylum of each diagram:

A. \_\_\_\_\_

B. \_\_\_\_\_

C. \_\_\_\_\_

D. \_\_\_\_\_

Which of these fossils was sessile? A, B, C, D.

Which are filter feeders A, B, C, D.

Which depicts a Class of organisms now extinct A, B, C, D

Which organism uses a vascular system for movement? A, B, C, D.

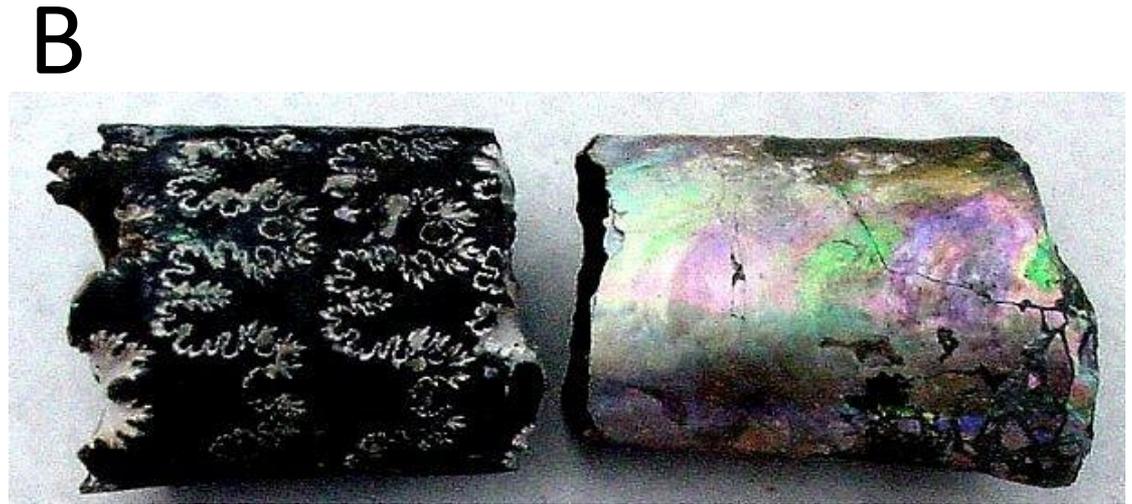
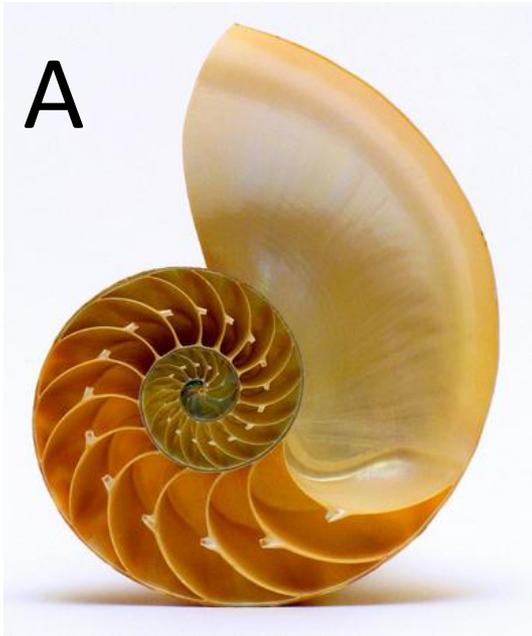
# Station 1



# Station 2



# Station 3



# Station 4

A



B



C



D



E



# Station 5

A



B



C

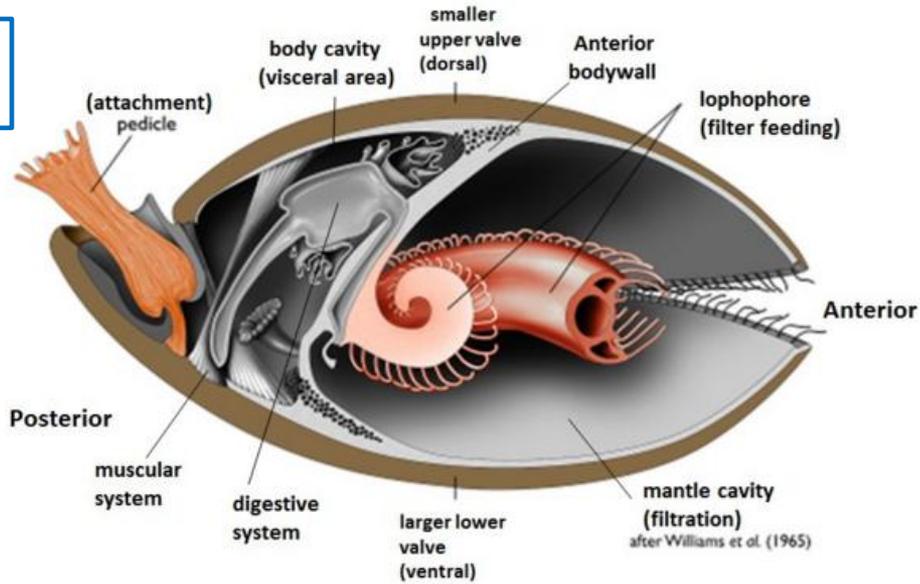


D

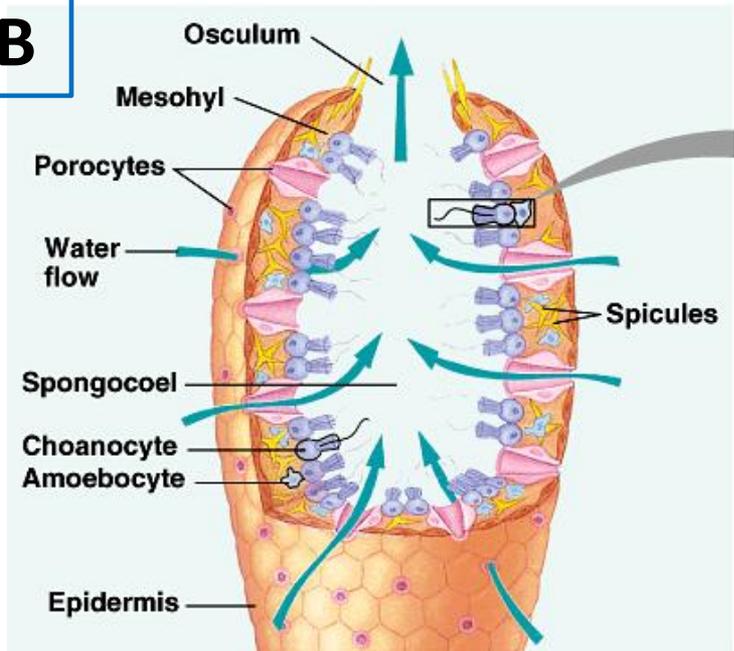


# STATION 6.

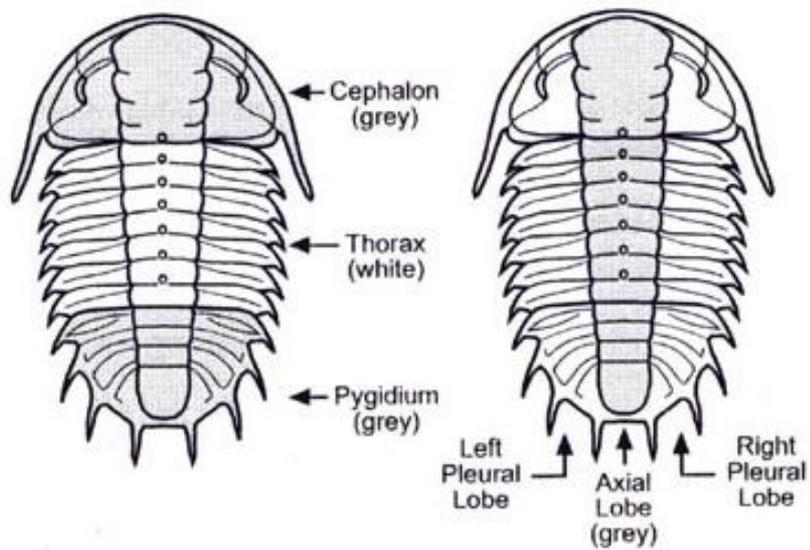
**A**



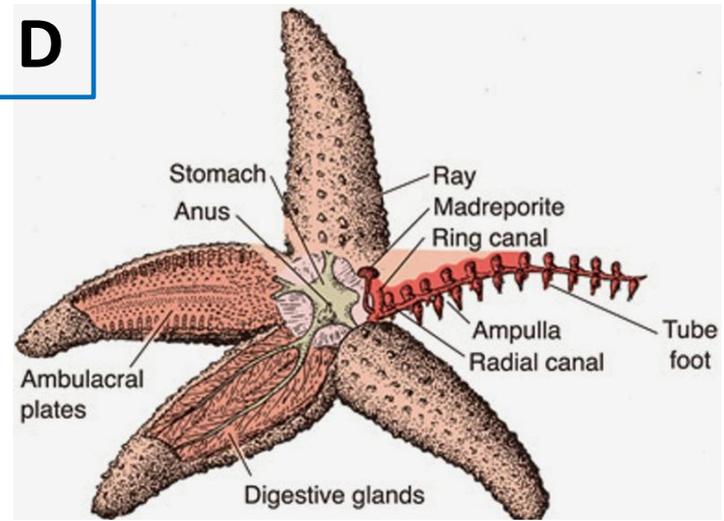
**B**



**C**



**D**



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 Platycephalus  
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. A – Echinozoa (sea urchins here)  
B - Crinozoa  
C - Pentremites (blastoids)  
D – Ophiurozoa (brittle star)  
they are 5-sided/armed  
Pentremites (blastoids) are extinct

6.  
A – Brachiopoda  
B – Porifera  
C – Arthropoda  
D – Echinodermata

A and B are sessile  
A and B are filter feeders  
Trilobites (C) are now extinct.  
Starfish deploy a vascular system  
for movement.