

STATION 1

Can you name this fossil ?

Phylum \_\_\_\_\_



Class \_\_\_\_\_

Genus \_\_\_\_\_

When did he live?

Cambrian, Devonian, Permian, Triassic

What feature is poorly developed that identifies him as a early member of his Class? \_\_\_\_\_

The upper smooth part of his body is his:

pygidium, thorax, spicule, cephalon, euphyra

TRUE OR FALSE: This creature was sessile and benthic.

STATION 3 -- refer to specimen in box

*see page 4 for pictures for online version*

Three of these fossils are from the same Phylum. Can you:

a) Name the common Phylum for 3 of them \_\_\_\_\_

b) Identify the Genus of the specimen that is a different Phylum.

Cnidaria, Anthozoa, Malacostraca, Isotelus, Favosites

Can you name the **class** for each specimen:

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

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

Which specimen has sutures ? A, B, C, D

STATION 2 --- refer to specimen in box

*see page 3 for pictures for online version*

Identify the Phylum of each specimen

F5. \_\_\_\_\_

F7. \_\_\_\_\_

F6. \_\_\_\_\_

F8. \_\_\_\_\_

Which of these fossils were sessile? F5, F6, F7, F8

Which of these fossils is in the Cephalopoda Class? \_\_\_\_\_

Which organism survived the Cretaceous extinction \_\_\_\_\_

Can you name the Genus for F8 ? \_\_\_\_\_

STATION 4 - refer to specimen in box

*see page 5 for pictures for online version*

Which of these is NOT a fossil? Why not? \_\_\_\_\_

A, B, C, D

Shell D is from which Phylum

Porifera, Brachipoda, Cnidaria, Echinodermata, Arthropoda

Which shell(s) are from the Mollusca Phylum

A, B, C, D

Which organism was/were pelagic swimmers?

A, B, C, D

Which organism was benthic and sessile ?

A, B, C, D, None

STATION 5 --- refer to box, or see page 6 for pictures if online

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 has a siphuncle? A, B, C, D

What was siphuncle used for? \_\_\_\_\_

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     |

Circle the Genus on the left that are in Phylum Mollusca

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 2.

F5



F6



F7



F8



# STATION 3.

**A**



**B**



**C**

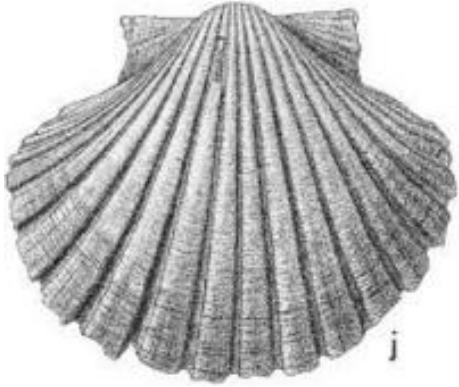


**D**



# STATION 4.

**A**



**B**



**C**

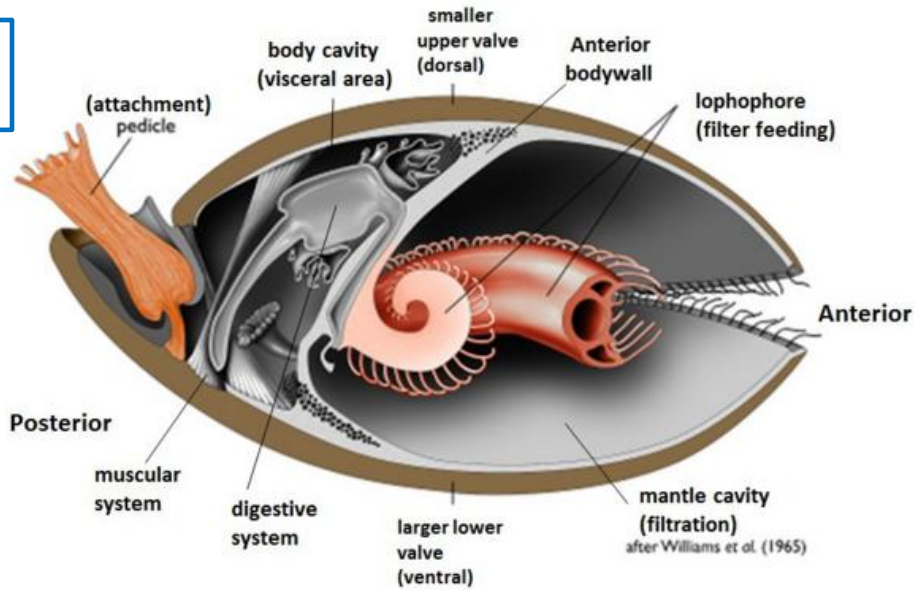


**D**

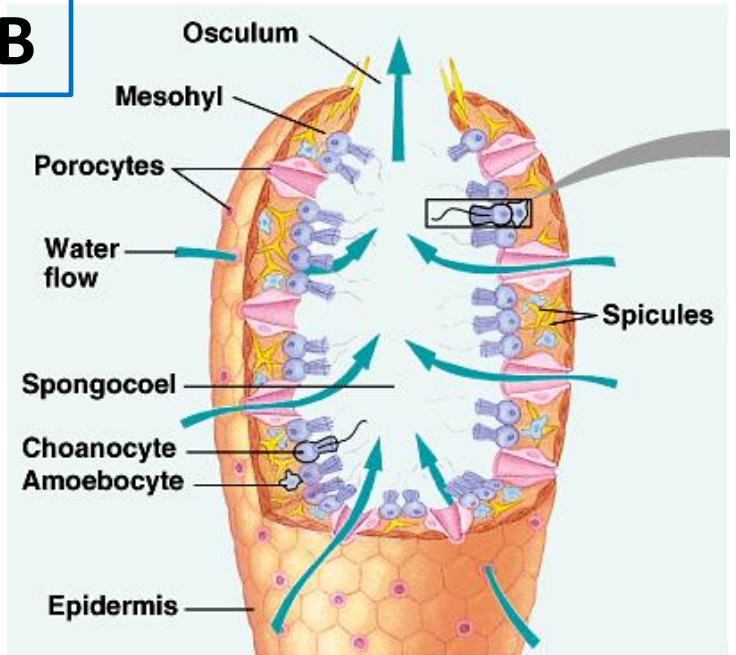


# STATION 5.

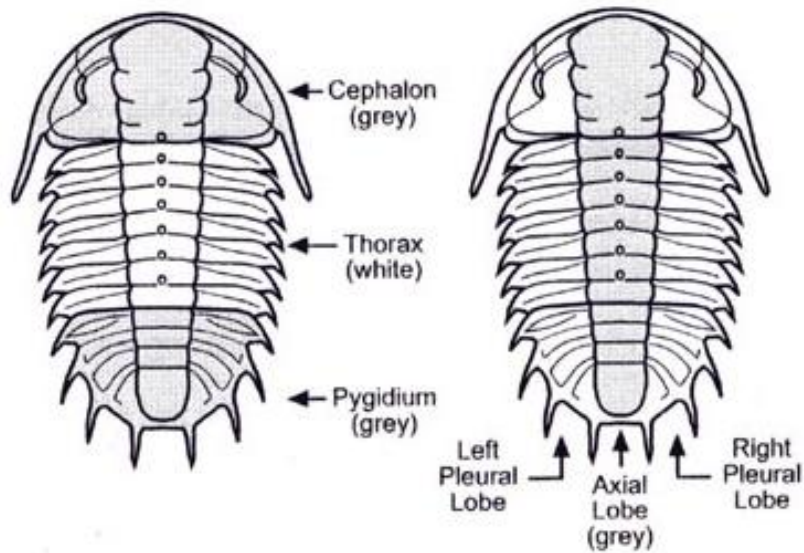
**A**



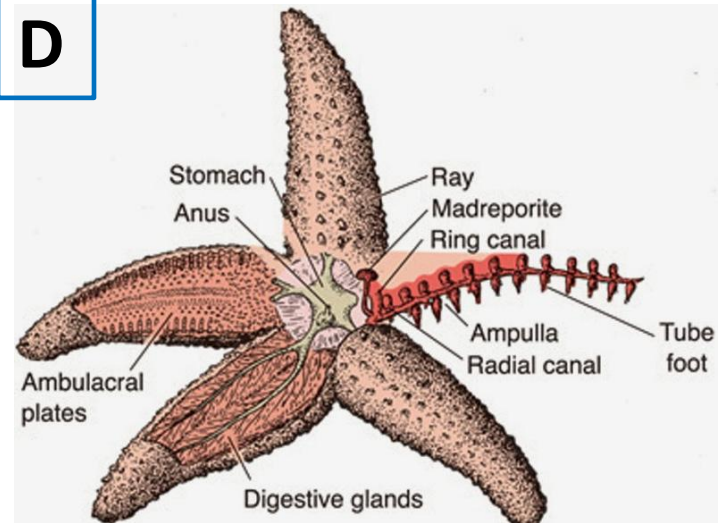
**B**



**C**



**D**



## Answers

### Station 1.

Arthropoda  
Trilobita  
Elrathia  
lived in Cambrian  
Eyes poorly  
developed  
Cephalon  
False, not sessile

### Station 2.

F5 – Bryozoa  
F6 – Brachiopoda  
F7 – Mollusca  
F8 - Brachiopoda  
F5, F6, & F8 sessile  
none are Cephalopods  
F7 survived the Cret.  
F8 is Juresina

### Station 3.

3 are Mollusca  
Favosites  
A. Cephalopod  
B. Cephalopod  
C. Gastropod  
D. Anthozoa  
A has sutures

### Station 4.

D is a modern shell,  
not a fossil  
Echniodermata  
A,B,C are Mollusca  
C (Exogyra) was pelagic  
None were BOTH benthic  
and sessile.

### Station 5.

A. Brachiopod  
B. Porifera  
C. Arthropoda  
D. Mollusca  
A and B - sessile  
A and B – filter feeders  
C is extinct Class  
D has a siphuncle, which was  
used for changing buoyancy  
in water column

### Station 6.

Dactylioceras - Jurassic (D)  
Pecten – Recent (G)  
Archimedes – Permian (E)  
Mucrospirifer – Devonian (F)  
Orthoceras – Silurian (B)  
Belemnitella – Cretaceous (A)  
Elrathia – Cambrian (C)

### Station 7.

A. False  
B. True  
C. True  
D. True  
E. True  
F. True  
G. False  
H. True  
I. False