STATION 1

Identify each type of coral in the images provided:

A _____ B _____

C _____ D _____

Which coral's thecae appear as a tightly-packed, hexagonal arrangment?

A B C D

Which solitary, rugose coral generally added a new growth layer each day. By counting them, paleontologists calculated that there were ~400 days in a year in the Devonian Period.

A B C D

Which coral is NOT a Paleozoic animal?

A B C D

STATION 2 Choose your answers from the following:

Sandstone Shale Amber Limestone Chalk Diatomite

Which is the most likely to contain a dinosuar bone? _____

Which is not going to contain an Arthropod fossil? _____

Which is a coarse grained clastic rock ? _____

Which is a fine-grained silica rock of biologic origin? _____

Which rock can completely preserve Arthropods? _____

STATION 3

Record the Class of each aminal : A _____

B _____ C _____ D _____

E _____ F _____

Which of the Cephalopods above went extinct at the same time as the Triceratops Dinosaur ?

_____

Refering to specimen f, which statement below is true:

a. This creature used its gills for filter feeding.
b. This creature actively crawled on a large muscular foot.
c. This creature lived gregariously (i.e. in large groups/colonies)

True or False: Ophiurodiea are another animal in the same Phylum as all these animals.

STATION 4 --

Which of these animals does not fit with the others:

_____ , Why ? _____

Now try again, find another reason why a different one of these aniimals does not fit with the others:

_____ , Why? _____

How many can you name?

A _____ B _____ C _____

D _____ E _____

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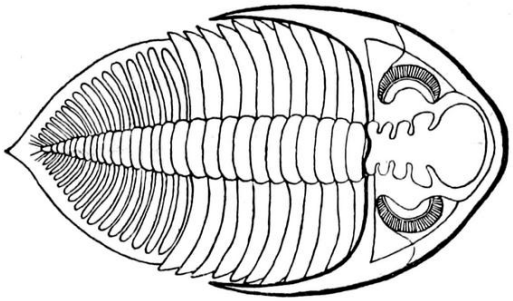
STATION 5 Label the following parts on this Trilobite

A. Cephalon
B. Pleural lobe
C. Axial lobe
D. Globella
E. Pygidium
F. Thorax



What is the material that held many of these body part together? _____

When did this Class of animals first appear? _____

When did this Class of animals go extinct? _____

STATION 6

Name the Phylum of these animals: _____

Which of the Genus represented in the pictures opens and closes differently than the others A B C D E

Name the Genus _____ and the term used to decribe this characteristic _____

What is the name for the top valve/shell in A ? _____

What is the name for the bottom value/shell in A? _____

Can you name the genus for A _____

B _____

TRUE or FALSE: These animals are filter feeders.

TRUE OR FALSE: These animals are pelagic.

STATION 7

Name the Phylum and subgroup that these fossils belong to

	Phylum	Subgroup	Preservation
A	_____	_____	_____
B	_____	_____	_____
C	_____	_____	_____
D	_____	_____	_____

Indicate the presevation process for each from the following list

Cast Internal Mold External Mold Actual Remains
Mineral Replacement Petrification Carbonization

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Station 1

a

b

c

d

Station 3

a 

b 

c 

d 

e 

f 

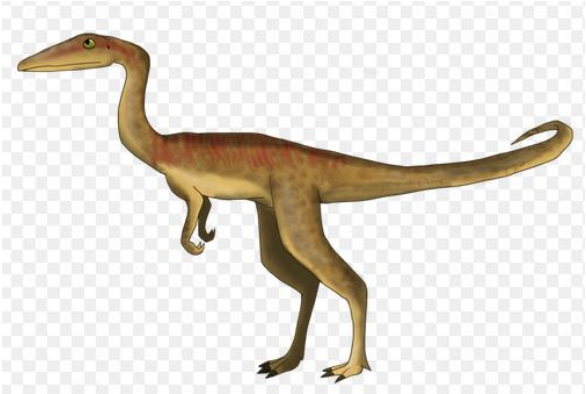
Station 4

A

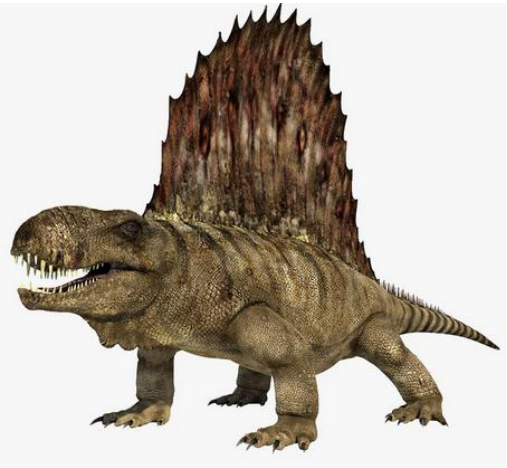
B

C

D



E



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Station 6

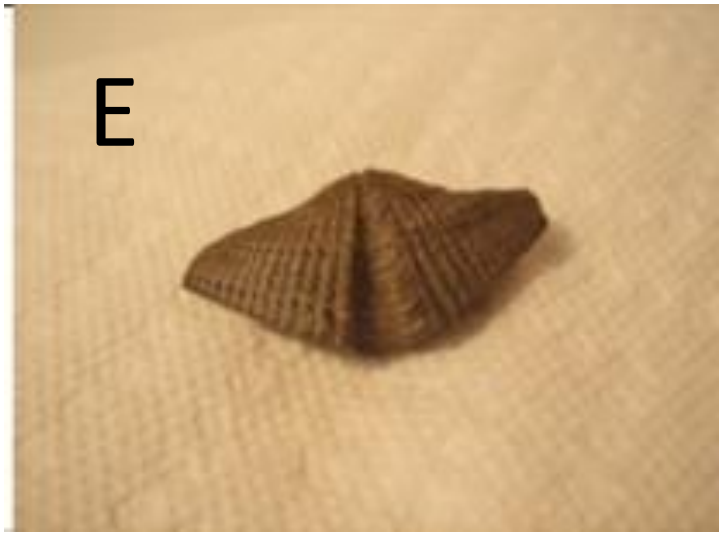
A

B

C

D

E



Station 7

A

B

C

D

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1.
a. Halysites
b. Septastraea
c. Hexagonaria
d. Heliophyllum

Tightly packed thecae – C
400 days in Devonian – D
B is not Paleozoic

2.
Shale
Chalk
Sandstone
Chromista
diatomite
amber

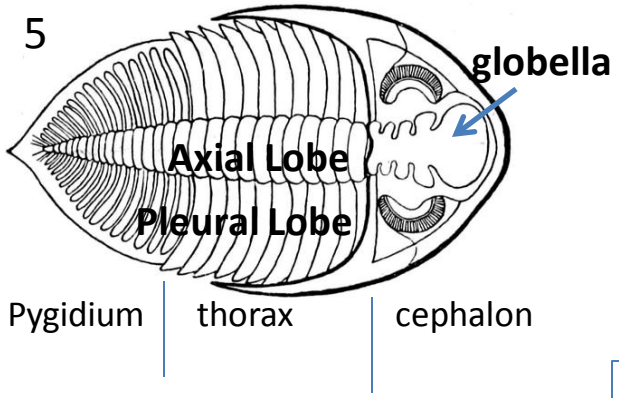
3
a. Cephalopod
b. Cephalopod
c. Bivalve
d. Gastropod
e. Cephalopod
f. Gastropod

A and E went extinct with Triceratops
b. Is true relative to F.
False – Ophiurodiea are echinoderms

4
a. Velociraptor
b. Tyrannosaurus
c. Iquanodon
d. Coeleophysis
e. Dimetrodon

E is not a dinosaur
C (of the 4 dinosaurs, Igquanodon were herbivores

5



chitin
Cambrian
P-T Extinction

6. Brachipods
(D) Lingula (inarticulate)
Pedicle, brachial
A Composita
B Platystophia
True, False

7. All Mollusca Phylum
Gastropod – internal mold
Cephalopod – replacement
Bivalve – actual remains
Cephalopod – replacement (pyrite)

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