

Fossil Test 1





1.Name:

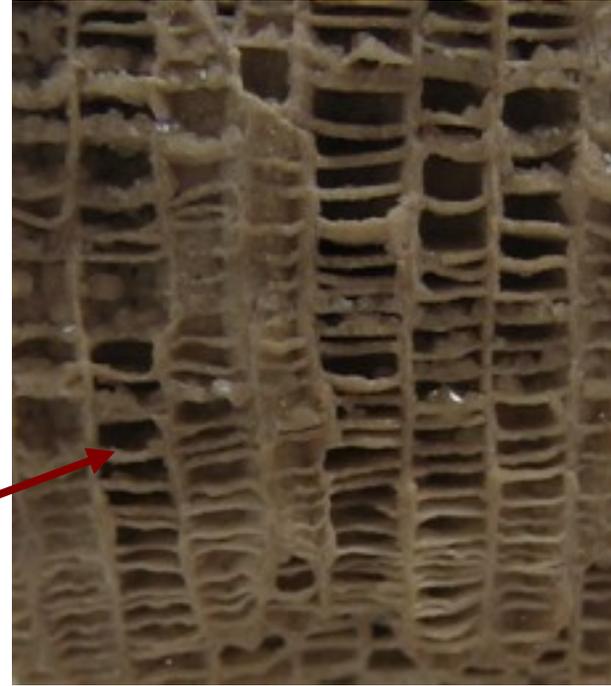
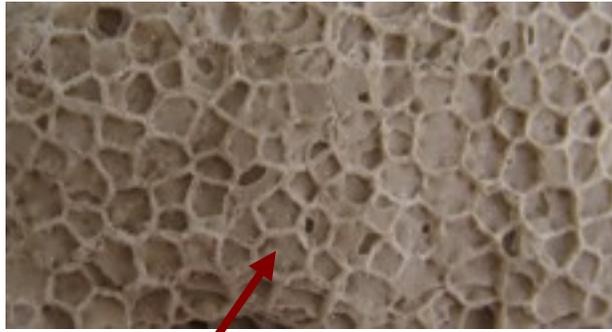
2.What would the presence of this organism and *Hexagonaria* tell you about the age of the deposit in which they were found?



3. Genus

4. This fossil is the state stone for _____.

5. The common name for this fossil is _____ stone.



6. Structure?

7. Structure?

8. Identify this organism.

9. What ancient environment is represented by the presence of this fossil?



10. Genus

11. What do the above specimen and the specimen in number 8 have in common?

12. Genus

13. What can the presence of this organism tell you about the age of the deposit in which it is found?

14. What part of the organism does this fossil represent?





15. Identify this organism.

16. What does this fossil have in common with the fossil identified in number 12?



17. Genus

18. In what kind of environment did this organism live? Explain.



19. Genus

20. Who was this fossil named after?

21. What did this person say about life found on Earth?



22. Genus

23. What is the meaning of the genus?

24. What were two possible functions of the elongated shell?



25. Genus

26. How did this organism feed?



27. Genus

28. How was this fossil named?



29. Genus

30. Which valve makes this genus distinctive?



31. Genus

32. New name?



33. What do all of these specimens have in common?
34. Identify the specimens.



35. Genus

36. When did this organism live?



37. Genus

38. This organism was blind, how did it feed?



39. Genus

40. How are the lenses of this trilobite different from other trilobites?



41. Place the three trilobites in order of when they appear in the fossil record.



42. What do A, B, and C have in common?

43. Identify the specimens.

44. In what kind of environment do these organisms live?





45. Identify the phylum for each organism.

46. Identify the class for A and C.



47. Identify the plant specimens.

48. Which plant formed the bulk of the coal deposits formed during the Pennsylvanian and Mississippian periods?

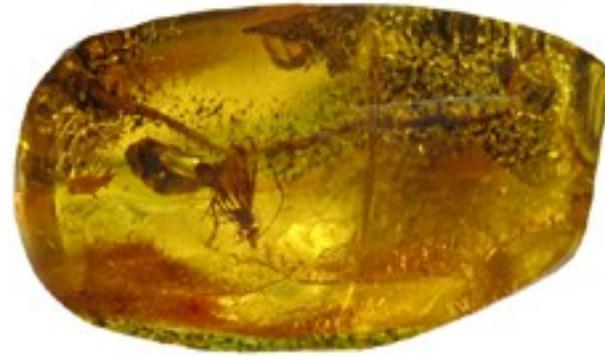


49. Identify and group the organisms according to the time period in which they lived.

50. Which two are most closely related to birds?

51. Which is Colorado's state fossil?





52. Identify the type of fossilization represented by each specimen.



53. Identify the fossil types, environment, and age of the fossil slab.

1. Rugose or horn coral
- 2.2. Paleozoic Era, Devonian Period
3. *Hexagonaria*
4. Michigan
5. Petoskey stone
6. Corallite
7. Tabula
8. *Favosites*
9. Warm marine environment
10. *Halysites*
11. Subclass Tabulata
12. *Archimedes*
13. Paleozoic Era; Mississippian Period
14. Axis
15. Branching bryozoan
16. Phylum Bryozoa
17. *Composita*
18. Turbulent waters-found with shell debris upside down
19. *Rafinesquina*
20. Constantine Rafinesque
21. Argued the Earth was very old and organisms could evolve before Darwin
22. *Mucrospirifer*
23. Sharply pointed spire-bearer
24. Large surface area to prevent sinking in mud
25. *Turritella*
26. Lives in sediment and filters fine food particles from water
27. *Worthenia*
28. Named for Amos Henry Worthen (1813-1888) who specialized in fossils of Mississippian and Pennsylvanian rocks.

29. *Exogyra*
30. Left
31. *Gryphaea*
32. *Pycnodonte*
33. Class Cephalopod
34. A. Nautilus, B. Ammonite, C. Baculite,
D. Belemnite
35. *Elrathia*
36. Cambrian Period
37. *Cryptolithus*
38. May have fed like modern horseshoe crabs, plowing through
sediment scavenging .
39. *Phacops*
40. Rounded instead of hexagonal lenses.
41. *Elrathia*-Cambrian, *Cryptolithus*-Ordovician, *Phacops*-Devonian
42. Phylum Echinodermata
43. A. Blastoid, B. Sea Urchin, C. Crinoid
44. Marine
45. A. & C Chordata B. Hemichordata (Graptolite)
46. A. Chondrichthyes (shark tooth), B. Osteichthyes (bony fish)
47. A. *Lepidodendron* B. Fern C. *Annularia*
48. Lycopods
49. Jurassic A. *Allosaurus*, G. *Apatosaurus*, F. *Brachiosaurus*
E. *Stegosaurus*; Cretaceous: B. *Iguanodon*, C. *Tyrannosaurus*,
D. *Triceratops*
50. *Allosaurus* & *Tyrannosaurus*—Theropods
51. A. Mold & Cast B. Amber (petrified tree resin) C. Carbonization D. Imprint
52. Crinoids, Bryozoans, Brachiopods, *Cryptolithus* trilobite,
marine environment, Ordovician Period.