

12/10

Fossils

#9

Entry Task

Read p. 76-78 and answer the
Think Questions on p. 78

What are fossils?

Learning Target:

**I can use index fossils to provide evidence of the
relative age of rock layers.**

12/10

Fossils

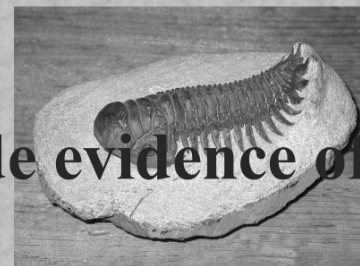
#9



Entry Task

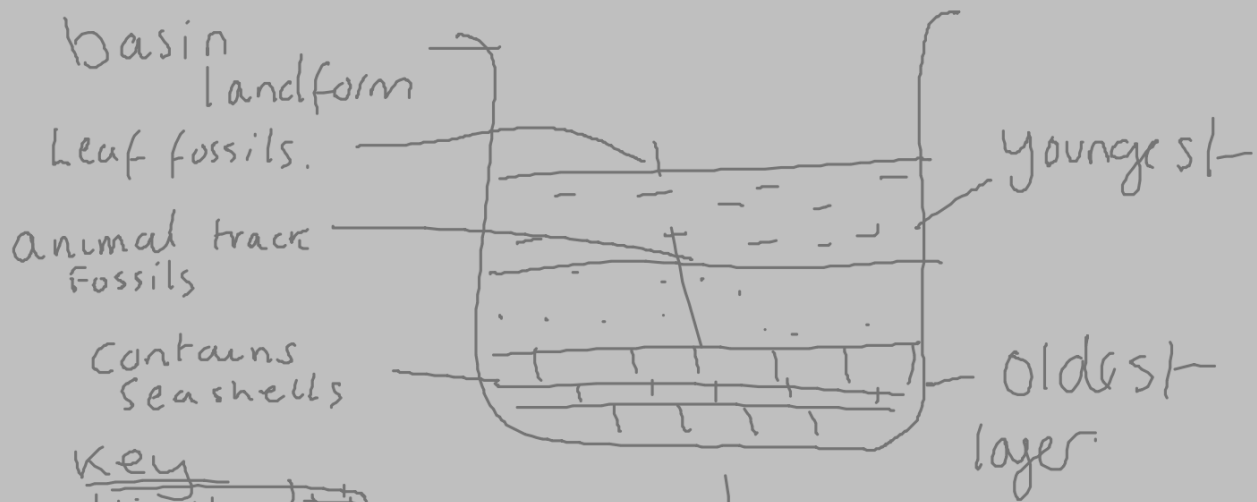
Turn to your conceptual model of the rock layers

Label the oldest layer and the youngest layer in your basin model. Explain your labeling.



Learning Target:

I can use index fossils to provide evidence of the relative age of rock layers.



Key

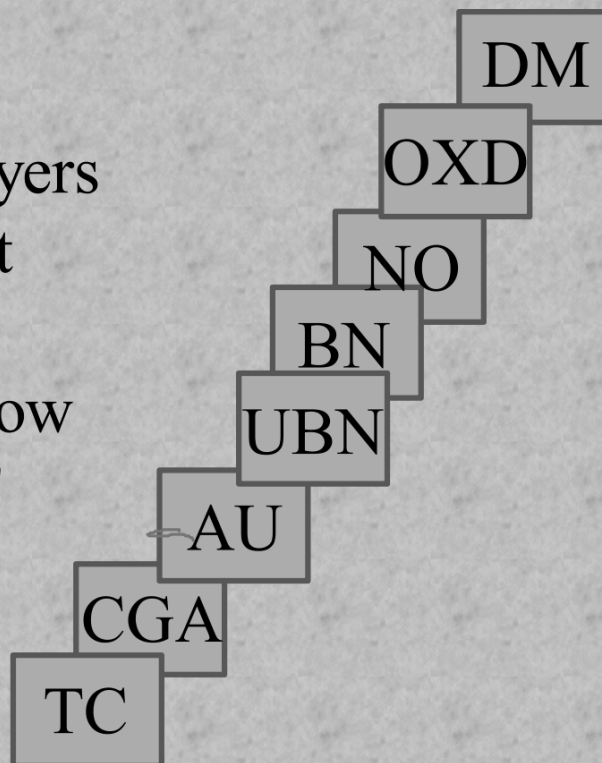
Limestone	
Sandstone
Shale	==



- FOSSweb Shale Formation
- Login: TFMS
- Password: Student

that look
like the ones below. The
letters within the cards
represent fossils.

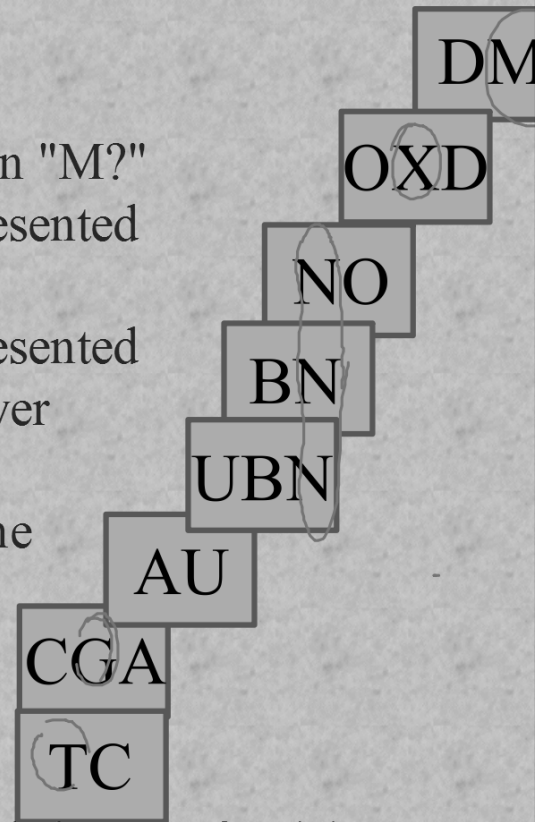
Arrange the cards in layers
from youngest to oldest
following the Law of
Superposition. You know
that the card with "TC"
fossils are the oldest.



I can use index fossils to provide evidence of the relative age of rock layers.

Now that you have arranged the layers of fossils, answer the following in full sentences:

1. How do you know that "X" is older than "M?"
2. Explain why "D" in the rock layer represented by "DM" is the same age as "M."
3. Explain why "D" in the rock layer represented by "OXD" is older than "D" in the rock layer "DM."
4. Which letters did you not use to make the sequence?



I can use index fossils to provide evidence of the relative age of rock layers.

Card set 2

For this set of cards and sketches of fossils, each card represents a particular rock layer. The oldest rock layer has a letter M in the corner. Ignore the other letters.

Sequence the cards as you did with the first set, following the Law of Superposition
Write down the sequence of letters.

I can use index fossils to provide evidence of the relative age of rock layers.

Card set 2

Highlight/circle the fossils you used to sequence the cards:

1. how did it help you if there were more than one fossil on each card?
2. What do you notice about the Crinoid?
3. Which fossils are not highlighted?
4. Why were these fossils not used to make the sequence?

I can use index fossils to provide evidence of the relative age of rock layers.

Card set 2

Index Fossils

The law of superposition

I can use index fossils to provide evidence of the relative age of rock layers.

In your journal:

State the Law of Superposition and explain how index fossils provide evidence for the relative ages of rock layers. Use the word bank to help you.

Word Bank

Rock Layer

index fossil

fossil

sequence

relative

age

youngest

oldest

horizontal

extinct

I can use index fossils to provide evidence of the relative age of rock layers.