#### Notes #5: Fossils

### I. How can scientists know what organisms were around long ago??? FOSSILS

- Fossils are used to determine:
- 1. The kinds of organisms that lived in the past
- 2. The behavior of the organisms
- 3. Ancient climates
- 4. Ancient geography

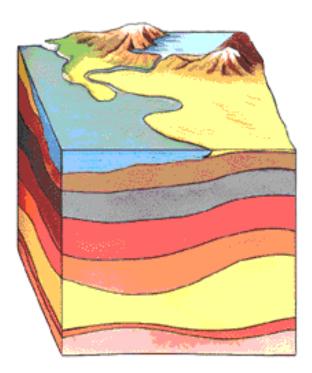


### II. Where are fossils?

Most fossils are found in sedimentary rock

This rock is mainly

found at the bottom of lakes, streams, & oceans



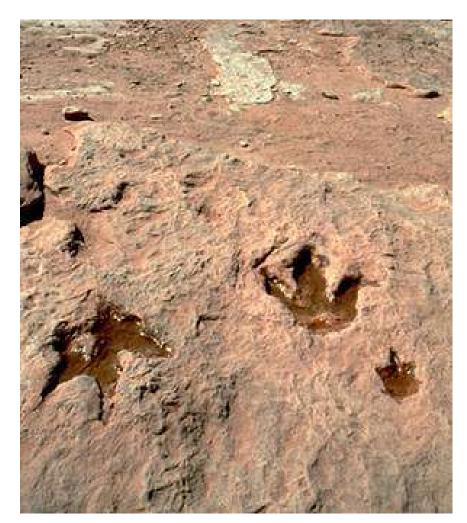
# III. How do we know how old a fossil is?

- 1.Relative Dating- uses layers
- of sediment
- 2. Radiometric dating-
- Uses isotopes



# IV: What types of fossils have been found?

1. A <u>trace fossil</u> is the marking left by an animal and may include a footprint, trail, and/or a burrow.



2. Imprint fossil: A thin object, such as a leaf, that falls into sediment can leave an imprint when the sediment hardens into rock.



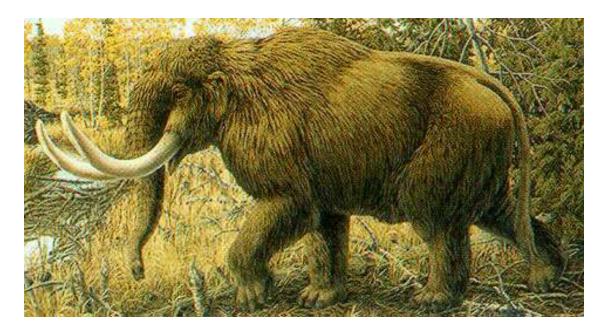
3. A mold forms when an organism is buried in sediment and then decays, leaving an empty space.



4. An amberpreserved fossil is when an entire organism was quickly trapped in tree sap that hardened



# 5. <u>Frozen Fossils</u>: An entire organism was quickly trapped in ice.



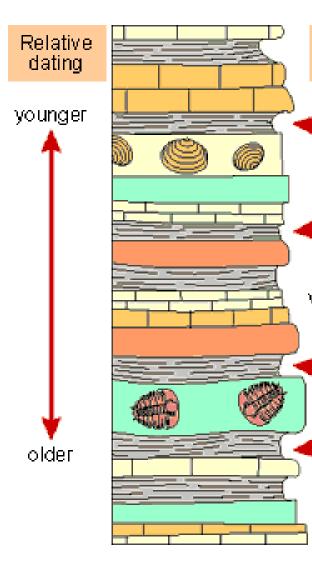
Evamnla \_ a mammoth tranned in diacial ice

### SUMMARY

### What are the types of fossils and how do we know how old they are?

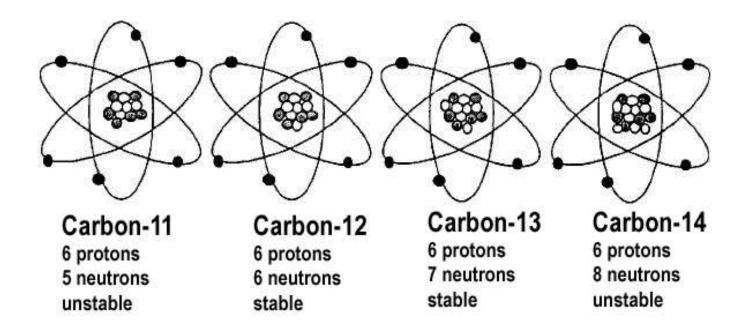
### **Glossary Words**

11.Relative dating – Fossils found in lower layers are older than fossils found in top layers



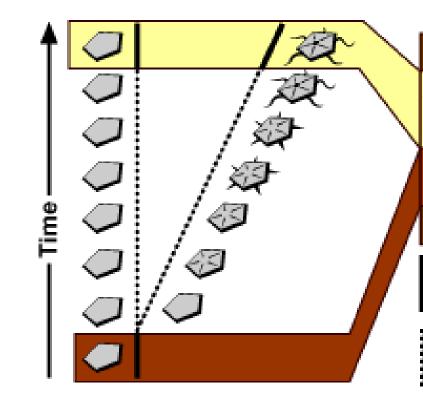
### 12. Radiometric dating

uses radioactive isotopes and their half life decay rate to get an exact age.



### 4. Gradualism

Organisms evolve in a process of slow and constant change



### 5. Punctuated Equilibrium

There were short bursts of quick evolution

