12.1 & 12.2 Notes

Time
- ________________ Time
  - Places events in ________________ but __________ give the actual date of an event.
- ________________ Time
  - Identifies the ___________ ________ of an event.

The Laws and Principles of RELATIVE DATING
- Law of ______________________
  - In a sequence of ________________ sedimentary rocks, the __________ rocks will be at the ___________ of the sequence and the _______________ will be at the ________.
- Principle of ______________________________
  - __________ of sediments are generally ________________ in a ___________ position.
  - _______ layers __________ they must have been __________ into this position sometime __________ their ______________.
- Law of ______________
  - An ___________ rock is _______________ than the rocks it has ____________, or ________ across.
- Law of ______________________________
  - States that ___________ of one rock ___________ in another rock must be _________ than the ________ in which they are __________.
• A _______ in the rock _______ where _________ of rock are _________.
  o _________ could have been _______________ and then ________________ by erosion.
  o An _______ unconformity __________ that during the pause in deposition, a period of _______________ (folding or tilting) and _______________ occurred.
  o A ____________ is when the ______________ surface separates __________ metamorphic or intrusive igneous rocks from ______________ sedimentary rocks.
  o A ____________ is when ______ sedimentary rock layers are ______________ by an __________ surface.

Rock Correlation

• The ________ of rock layers from one ______ to _____________.
  o Example: ______________ __________

Geologic Time Table

• A ________ of the major __________ of Earth’s history ______________ in the rock ________________.
  
• ______________ are an ______________ part of that history.
  o ______________: any ______________ of earlier life ______________ in a ________.
    ▪ Example: __________, __________, impressions of __________.
Types of Fossils

- ____________ Remains
  - Actual ____________, remains of the ________ or ____________ have been ____________.
    - Example: Whole ____________ ____________ that have been found frozen.

- ____________
  - ____________ resin
    - Example: ____________ getting ____________ in ______ from ____________.

- ____________ Remains
  - The ________ parts of the ____________ animal or plant have ____________ and the ________ parts have been ____________ by ____________ material.
    - Example: ____________ ____________

- ____________
  - ____________ in the rock.
  - ________ the ____________ ________ of the object.

- ____________
  - When _______ materials _______ in the ________.

- ____________ Fossils
  - Are ____________ of _______ other than the ________ of a plant or animal.
    - Example: ____________ & ____________

Conditions Favoring Preservation

- ____________ ____________
- ____________ of ________ parts

Index or Guide Fossils

- _______ Characteristics of an ________ Fossil:
  1. ____________ ____________
2. __________________
3. _______________ in the _______ that they ______________
  • Used to ___________ _______ of rocks.

Interpreting the Environment
  • ________________ can be used to ______________
    and ______________ ancient
    ____________________.
    o Example: Finding _______ says that the
      areas must have been ________________ by an ancient ______.