

## Geologic History- Relative Dating Notes

### Relative Time

Ages of events are placed in \_\_\_\_\_.

### Absolute Time

Ages of events are identified by \_\_\_\_\_.

### Finding Age with Relative Dating

By examining \_\_\_\_\_, we can determine what events occurred and in what order.

### What is a geologic Cross-section?

A diagram showing the layers of rock in a particular location.

### The Law of Superposition

In a sequence of undisturbed rock, the oldest rocks are found at the \_\_\_\_\_.

### The Law of Cross-Cutting Relationships

An igneous rock is \_\_\_\_\_ than the rocks that it has intruded into. (This also applies to faults)

### The Law of Original Horizontality

Rocks are usually deposited \_\_\_\_\_.

### The Law of Included Fragments

The individual fragments that make up a rock are \_\_\_\_\_ than the rock itself.

### The Law of Folds and Tilts

Any folds or tilts (or any deformation) are \_\_\_\_\_ than the rock layers that they affect.

### Things to Remember

Sedimentary rocks usually form \_\_\_\_\_.

Weathering and erosion usually occurs on \_\_\_\_\_.

Fossils are only found in \_\_\_\_\_ rocks

### Unconformities

A buried erosional surface; a missing section of the rock record.

### Rock Correlation

#### What is Correlation?

Matching rocks in one location to those in another location in order to \_\_\_\_\_.

Outcrops are areas of \_\_\_\_\_ which can be compared for similarities.

### Walking an Outcrop

Observing and following a particular layer of rock over a long distance.

By observing color, texture, and other characteristics, one may follow a layer over a distance

### Fossil Evidence

Most reliable method of correlation

Only found in \_\_\_\_\_ rocks

Provide clues about the environment in which the rock formed

### Index Fossils

Fossils of organisms that lived over a \_\_\_\_\_, but for only a \_\_\_\_\_ period of time.

Index fossils are important tools for correlating widely separated outcrops.

### Volcanic Time Markers

Volcanic eruptions may spread a \_\_\_\_\_ over the earth's surface.

It is useful because it is spread over a \_\_\_\_\_ and occurred over a \_\_\_\_\_ period of time.