| Geologic Time Web Activity | | |
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| Go to the Understanding Geologic Time website by the University of California Museum of Paleontology (http://www.ucmp.berkeley.edu/education/explorations/tours/geotime/gtpage1.html). | | |
| Answer these questions as you follow the prompts on each page. | | |
| 1. | The Earth and moon formed years ago. | |
| 2. | The dinosaurs became extinct years ago. | |
| 3. | How is relative age different than the actual date (absolute age) of an event? | |
| | | |
| 4. | How do scientists determine the relative age of a rock or fossil? | |
| 5. | Which came first, trilobites or ammonites?How did you know? | |
| 6. | What can radiometric dating tell us about the age of rocks that the Law of Superposition cannot? | |
| 7. | The 4 <u>eons</u> of the geologic time scale are: | |
| | | |
| 8. | Which <u>era</u> could be called the "Age of the Dinosaurs"? | |
| 9. | In which period did humans finally appear? | |
| 10 | .The divisions of time in the Geologic Time Scale represent | |

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| quest | iyou finish all 10 sections of the Geologic Time website and answer the 5 ions, click on the link to "Visit the <u>UC Museum of Paleontology</u> home page". |
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| | www.ucmp.berkeley.edu/exhibit/geology.html Explore this are and see if you care the answers to these questions. |
| 1. | In 1669, described two basic geologic principles. The first stated that sedimentary rocks are laid down in a horizontal manner (the law of original horizontality), and the second stated that younger rock units were deposited on top of older rock units (law of superposition). |
| 2. | How were the Cenozoic, the Mesozoic, and the Paleozoic Eras named? |
| 3. | Oxygen first begin building up in the atmosphere in the eon. |
| 4. | What is the principle of faunal succession? |
| 5. | The Cambrian period began with the breakup of the world-continent called and ended with the formation of as the Earth's continents came together once again. |
| 6. | Between which two periods was the largest mass extinction of life?and the |
| 7. | Name 6 groups of organisms that survived the Cretaceous-Tertiary extinction. |
| 8. | What was Charles Lyell's big contribution to science? |
| 9. | Why do no rocks exist from the Hadean eon except meteorites? |
| 10 | . Why is it thought that there are so many carnivores trapped in the La Brea tar pits and so few herbivores? |

When you finish- Check out these other sites about the Geologic Time Scale

- <u>The Geologic Time Machine</u> links the periods to good descriptions and graphics for each time period, or go to their main page here.
- US Geological Survey's <u>The Geologic Time Scale</u> gives brief descriptions of each period.
- <u>Artist Douglas Henderson</u> has created some illustrations of various geologic time periods.
- <u>Life Through Geologic Time: A Pictorial History of Life on Earth</u> includes summary information about time periods as well as images. This site also includes information about major impact craters (meteors) on Earth during each period.
- The Paleomap Project has some great maps (of course) as well as some good information.
- The Geologic Timescale offers a good chart and details about each time period.
- If your time period includes dinosaurs, dinosauria.com may be for you.
- Check for extinctions during your time period at Minor Extinctions in Earth History.
- The <u>Five Worst Extinctions in Earth's History</u> at space.com is another extinction source.
 Close the pop-up windows as they appear.
- Geologic Time Scale:
- http://www.ucmp.berkeley.edu/education/explorations/tours/geotime/index.html
- http://www.ucmp.berkeley.edu/education/explorations/tours/geotime/guide/geologictimes cale.html
- http://www.agiweb.org/news/evolution/geologictime.html
- http://www.ucmp.berkeley.edu/help/timeform.html
- Overview of Earth History:
 - http://www.windows2universe.org/earth/past/geologic_time.html&edu=high
- http://www.pbs.org/wgbh/nova/beta/evolution/brief-history-life.html
- Precambrian Time Links:
- Proterozoic Era: http://www.ucmp.berkeley.edu/precambrian/proterozoic.html
- Archaean Era: http://www.ucmp.berkeley.edu/precambrian/archaean.html
- Hadean Era: http://www.ucmp.berkeley.edu/precambrian/hadean.html
- Paleozoic Era Links:
- http://www.windows.ucar.edu/tour/link=/earth/geology/hist_paleozoic.html&edu=mid
- http://www.windows2universe.org/earth/geology/hist_paleozoic.html&edu=high
- http://www.ucmp.berkeley.edu/paleozoic/paleozoic.html
- Mezozoic Era Links:
- http://www.windows.ucar.edu/tour/link=/earth/geology/hist_mesozoic.html
- http://www.windows2universe.org/earth/geology/hist_mesozoic.html&edu=high_
- http://www.ucmp.berkeley.edu/mesozoic/mesozoic.html
- Cenozoic Era Links:
- http://www.windows.ucar.edu/tour/link=/earth/geology/hist_cenozoic.html
- http://www.windows2universe.org/earth/geology/hist_cenozoic.html&edu=high
- http://www.ucmp.berkeley.edu/cenozoic/cenozoic.html