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Geologic Time

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| **Across**  **3.** Indirect fossil evidence,like footprints,of an organism  **5.** Unit of geologic time when Earth formed and became hospitable for life  **10.** Second longest time in the geologic time scale  **11.** Third longest time unit in the geologic time scale  **12.** "Present" time period  **13.** Determines the age of organic objects that were once alive  **14.** The period of time it takes for one half of a radioactive istope to decay  **16.** Longest time in the geologic time scale  **17.** Occurs when an unusually large number of organisms disappear from the rock record at the same time  **18.** Time unit in the geologic time scale smaller than a period  **19.** Remains of plants or animals that were very abundant and existed briefly | **Down**  **1.** Determines the age of a rock or fossil by determining the ration of parent to daughter nuclei  **2.** Microscopic,photosynthetic prokaryotes  **4.** Method that enables scientists to determine the actual age of rocks  **6.** Establishing the order of past geographic events  **7.** "Ancient" time period  **8.** Sudden appearance of a diverse collection of organisms in the Cambrian fossil record  **9.** Large mat or mound composed of billions of photosynthetic bacteria that dominated shallow oceans  **15.** "Middle" time period |

   Paleozoic Era       Mesozoic Era       Cenozoic Era       Radiometric dating       Relative dating       Radiocarbon Dating       Index fossil       stromatolite       Eon       Absolute age dating       Cyanobacteria       Mass Extinction       Trace Fossil       Era       cambrian explosion       half life       Period       epoch       Precambrian