

Geologic Events-Life Forms' Absolute Age

TEACHER KEY

Directions: Your teacher will give you paper that is 4.6 meters long. Label one end of the paper "Origin of Earth-4.6 bya (Precambrian Era)" and the other end of the paper "Today (Cenozoic Era)". Below are cards with the absolute ages of the organisms you ordered according to relative age earlier. Cut out the following cards and use the scale factor to place each organism in the correct order on the scaled model.

Scale Factor

1 meter=1 billion years

1 centimeter=10 million years

1 millimeter=1 million years

Note:

bya=billions of years ago

mya=millions of years ago

Spiders-440 mya (Paleozoic Era)-44 cm

Bacteria-2.5 bya (Precambrian Era)-2.5 m

Seaweed-505 mya (Paleozoic Era)-50.5 cm

First Modern Humans-100,00 ya (Cenozoic Era)-0.1 mm

Green Algae-1 bya (Precambrian Era)-1 m

Sea Sponge-570 mya (Precambrian Era)-57 cm

Dinosaur Extinction-65 mya (Mesozoic Era)-6.5 cm

Dogs-23 mya (Cenozoic Era)-2.3 cm

Beginning of Dinosaur Age-240 mya (Mesozoic Era)-24 cm

First Amphibians-410 mya (Paleozoic Era)-41 cm

First Primates-55 mya (Cenozoic Era)-5.5 cm

Cats-38 mya (Cenozoic Era)-3.8 cm

First Cockroaches-325 mya (Paleozoic Era)-32.5 cm

Grass (land)-22 mya (Cenozoic Era)-2.2 cm

Beetles-286 mya (Paleozoic Era)-28.6 cm