

Name: \_\_\_\_\_

Instructions: Convert each age into **scientific notation**. Convert each size to **meters** when necessary, then into **scientific notation**. Fill in the chart. Attach your calculations showing how you got your answers.

**In Scientific Notation**

Object	Age(years)	Size(radius)	Age(yrs)	Size(meters)
Observable universe	13.7 billion	$10^{26}$ meters		
Surtsey (Earth's newest land mass)	40	0.5 miles		
Pleiades (galactic cluster)	100 million	32.6 light years		
First Living organisms on earth	4.6 billion	0.000 05 meters		
Pangea (Earths prehistoric supercontinent)	200 million	4500 miles		
First <i>Homo sapiens sapiens</i>	100 thousand	100 centimeters		
First <i>Tyrannosaurus rex</i>	200 million	20 feet		
Eukaryotes (first cells with nuclei)	2 billion	0.000 05 meters		
Earth	5 billion	6400 kilometers		
Milky Way Galaxy	14 billion	50,000 light years		
First atoms	13.7 billion	0.000 000 000 1 meters		
Our sun	5 billion	1 gigameter		
Our solar system	5 billion	1 terameter		

Light year =  $5.88 \times 10^{12}$  miles

1 mile = 1.609 kilometers

1 foot = .305 meters

1 kilometer = 1000 meter

100 centimeters = 1 meter

giga = 1,000,000,000

tera = 1,000,000,000,000

