

Time in Powers of Ten - Natural Phenomena and Their Timescales

10^{-44}	<u>what to do</u>
...	
10^{-26}	
...	
10^{-19}	<u>10^{-19} light-seconds</u>
10^{-18}	<u>0.3 to 30 attoseconds</u>
10^{-17}	
10^{-16}	
10^{-15}	<u>1.26 to 2.63 x 10^{-15} seconds</u>
10^{-14}	<u>0.26 to 3.33 x 10^{-14} seconds</u>
10^{-13}	
10^{-12}	
10^{-11}	
10^{-10}	<u>200 picoseconds</u>
10^{-9}	<u>0.3 to 3 nanoseconds</u>
10^{-8}	
10^{-7}	
10^{-6}	
10^{-5}	<u>1-10 x 10^{-5} seconds</u>
10^{-4}	

10^{-3}	<u>2 milliseconds</u>
10^{-2}	<u>0.0125-0.066 seconds</u>
10^{-1}	<u>0.05 seconds</u>
$10^0 = 1$	<u>1 second</u>
$10^0 = 1$	<u>0.86 seconds</u>
10^1	<u>9.58 seconds</u>
10^2	<u>103 seconds</u>
10^3	<u>998 seconds</u>
10^4	<u>3 hours</u>
10^5	<u>24 hours</u>
10^6	<u>15.945 days</u>
$10^{6.41}$	<u>25.4 days</u>
$10^{6.41}$	<u>25 to 35 days</u>
10^7	<u>88 days</u>
10^8	<u>4.22 years</u>
10^9	<u>33.227 years</u>
10^{10}	<u>200-500 years</u>
10^{11}	<u>4845 years</u>
10^{12}	<u>26000 years</u>
10^{13}	<u>380000 years</u>

10^{14}	<u>3 million light-years</u>
10^{15}	
10^{16}	<u>400 million years</u>
10^{17}	<u>3.5 billion years</u>
10^{17}	<u>13.8 billion years</u>
10^{18}	
...	
10^{32}	

$$10^3 = 1000$$

$$10^2 = 100$$

$$10^1 = 10$$

$$10^0 = 1$$

$$10^{-1} = 0.1$$

$$10^{-2} = 0.01$$

$$10^{-3} = 0.001$$

$$10^{-2} = \frac{1}{10^2} = \frac{1}{100} = 0.01$$

eTwinning Project

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Inspired by

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