Genesis Day	Length (Earth Days) [$A = (A_0/L)\, e^{-Lt}$]	Length (Earth Years)	Years ago	Viability	Eon	Era	Period	Epoch	Scientific Deduction	God's Revelation
1	3,023,637,787,335	8,278,446,118	16,298,196,796	^					(Big Bang)	DAY ONE: Gen 1:1-5 --> Light & Darkness created
2	1,511,818,893,668	4,139,223,059	8,019,750,677	|		Azoic (Hadean)			Milky Way formed	DAY TWO: Gen 1:6-8 --> Heavens and Earth created
			4,600,000,000	(no life)		Azoic (Hadean)			Sun & Solar System Formed	
			4,500,000,000	|		Azoic (Hadean)			Earth-Moon System Formed
3	755,909,446,834	2,069,611,530	3,880,527,618	V	Cryptozoic	Archeozoic (Archean)	PreCambrian		Earth Cools with atmosphere of CO_2, H_2O and NH_4	DAY THREE: Gen 1:9-13 --> Dry Land,
			3,500,000,000	1st LIFE	Cryptozoic	Proterozoic	PreCambrian		**First Life: Prokaryotic cells, bacteria, algae**	Liquid Water
			3,300,000,000	|	Cryptozoic	Proterozoic	PreCambrian		First Photosynthesis and cyanobacteria producing oxygen -- sequestering CO_2 in carbonate minerals	Plant Life
4	377,954,723,417	1,034,805,765	1,810,916,088	|	Cryptozoic	Proterozoic	PreCambrian		Oxygen-Nitrogen atmosphere evolving	DAY FOUR: Gen 1:14-19 --> Sun, Moon, Stars
			1,500,000,000	V	Cryptozoic	Proterozoic	PreCambrian		**First Eukaryotic Cells (i.e., with nuclei)**	
5	188,977,361,708	517,402,882	776,110,324	|	Cryptozoic	Proterozoic	Eocambrian	Varangian/Ediacaran	[multi-cellular Eukaryotic algae]	DAY FIVE: Gen 1:20-23 --> Sea Creatures,
			650,000,000	|	Cryptozoic	Proterozoic	Neoproterozoic	Vendian	(ediacaran - sponges - worms)	Birds (Animal Life)
			530,000,000	|	Phanerozoic	Paleozoic	Cambrian		**Cambrian Explosion - 50-80% all phyla**	
			490,000,000	|	Phanerozoic	Paleozoic	Ordovician		**Lasted only 5 million years**	
			443,000,000	|	Phanerozoic	Paleozoic	Silurian			
			417,000,000	|	Phanerozoic	Paleozoic	Devonian		(first land creatures)	
			354,000,000	|	Phanerozoic	Paleozoic	Carboniferous	Mississippian	(massive coal beds)	
			323,000,000	|	Phanerozoic	Paleozoic	Carboniferous	Pennsylvanian	(massive coal beds)	
			290,000,000	V	Phanerozoic	Paleozoic	Permian		(mass extinctions at end - meteor?)	
6	94,488,680,854	258,701,441	258,707,441	|	Phanerozoic	Mesozoic	Triassic		(dinosaurs)	DAY SIX: Gen 1:24-31 --> Land Animals,
			228,000,000	|	Phanerozoic	Mesozoic	Triassic		(first flying reptiles)	Man
			206,000,000	|	Phanerozoic	Mesozoic	Jurassic		Breakup of Pangaea (more dinosaurs)	
			155,000,000	|	Phanerozoic	Mesozoic	Jurassic		(first bird-like dinosaurs)	
			144,000,000	|	Phanerozoic	Mesozoic	Cretaceous		(first mammals - meteor mass extinctions)	
			65,000,000	|	Phanerozoic	Cenozoic	Tertiary	Paleocene		
			54,800,000	|	Phanerozoic	Cenozoic	Tertiary	Eocene		
			33,700,000	|	Phanerozoic	Cenozoic	Tertiary	Oligocene		
			23,800,000	|	Phanerozoic	Cenozoic	Tertiary	Miocene		
			5,300,000	|	Phanerozoic	Cenozoic	Tertiary	Pliocene		
			1,800,000	|	Phanerozoic	Cenozoic	Quaternary	Pleistocene	Homo Erectus	
			790,000	|	Phanerozoic	Cenozoic	Quaternary	Pleistocene	Earliest Firemaking	
			13,700	V	Phanerozoic	Cenozoic	Quaternary	Holocene	Stone Age/Bronze Age	
7			6,000	|	Historical	Hebrew/Historical	B.C./B.C.E.		Iron Age	DAY SEVEN: Gen 2:1 God Rested
			2,000	|	Historical	Christian/Common	A.D./C.E.			
			0	V	Present					

Total	6,000,031,234,244	16,427,541,516	GERALD SCHROEDER (The Science of God)
	(Six million million days)	[years] (The Age of the Universe)	

Ratio of Temperature of Quark Confinement vs. Temperature Today

1.14E+13	degrees K when matter formed (Time Zero)	**Emission Ratio (A_0)**
2.73	degrees K today	4.1917E+12

$$A = A_0/L \cdot e^{-Lt}$$

A = Earth Days in each Genesis Day

A_0 = Ratio of Temperature @ Quark Confinement to Temperature now (deg K)

L = ln (2) 0.693

$T_{1/2}$ = One Genesis Day (analogous to half-life)

t = Time in Genesis Days (1 - 7)

Law of Radioactive Decay

$$N = N_0 \cdot 2^{-t/T}$$

N .... number of the not decayed nuclei

N_0 ... number of the initially existing nuclei

t .... time

T .... half-life period

$$N = N_0 \cdot e^{-\lambda/t}$$

N .... number of the not decayed nuclei

N_0 ... number of the initially existing nuclei

λ .... decay rate

t .... time