

It's About Time!

Review: בְּרֵאשִׁית = In the beginning...

What about origins?
Not a question for Empirical Science → which depends on observations in the **present**
But a question for History → which depends on reliable **witnesses**

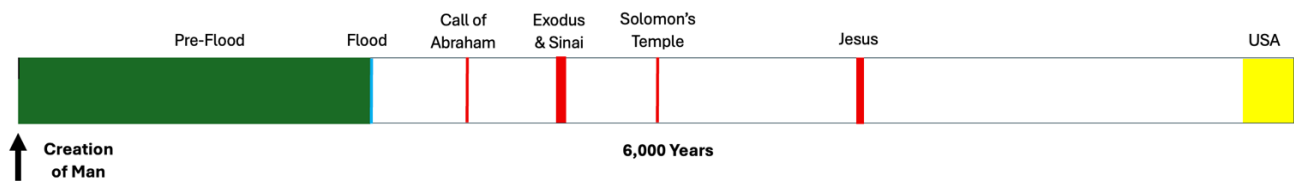
1. The Most Reliable Witness: Jesus, God the Creator, has testified to what he witnessed

“The [Word] was with God **in the beginning**. Through him all things were made; without him nothing was made that has been made.” – *John 1:2-3*

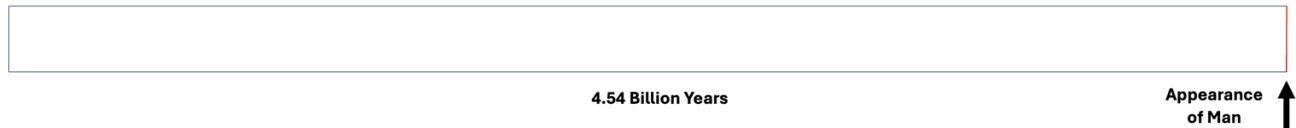
“But **at the beginning** of creation God ‘made them male and female.’” – *Mark 10:6*

Which Model aligns with Jesus’ clear statement in Mark 10:6?

• **Biblical:**



• **Secular (godless):**



We **Know By Faith**: By faith we understand that the universe was formed at God’s command, so that what is seen was not made out of what was visible. – *Hebrews 11:3*

Which is **Confirmed** by Overwhelming Evidence: *Psalm 19:1-2, Romans 1:20, and many others*

2. Evidence from the Origin of Life

• **Two Familiar Fairy Tales**

• **The Magic Explained**

“**Time is in fact the hero of the plot.** The time with which we have to deal is of the order of two billion years. What we regard as impossible on the basis of human experience is meaningless there. Given **so much time**, the ‘impossible’ becomes possible, the possible probable, and the probable virtually certain. One has only to wait; **time itself performs the miracles.**”

George Wald, “*The Origin of Life*” in *Scientific American*, Aug. 1954, p. 48

3. Evidence from the Science of Probability (Your friend, the Factorial)

• **6 pens:** $1/6 * 5 * 4 * 3 * 2 * 1 = 1/6! = 720$ tries • **10 cards:** $1/10! = 3,638,000$ tries

• **The Whole Deck** into factory order... a little competition ☺

– **TIME** sorts it, using blind, random **chance:** $1/52! = 8.06582 * 10^{67}$ tries

– **BOB** sorts it, using very little **intelligent design:** 1 try, taking 2 minutes

4. Evidence from the Science of Chemistry → *Real Odds are FAR Worse*

Hemoglobin: 2 α -subgroups (141 AAs each) and 2 β -subgroups (146 AAs each)

- Only left-handed AAs
- Not a kit, but a very dirty soup
- Endothermic & Unstable
- Must be Folded into a functional Protein
- Needs a living system

ATP Synthase: 3,444 Amino Acids

- All living things
- Energy currency of life
- Irreducibly Complex
- Constructed by Cellular Machines, which all run on ATP
- Instructions to build are in DNA, which uses ATP to function

30 year later: Study of 1mm³ **human brain** (<https://x.com/aakashgupta/status/2024701612888117372>)

Question #1 – What do you know from the lit candle?

Many “clocks” → educated guess at maximum possible age

- Io
- Moon recession
- Carbon-14 (¹⁴C)

Question #2 – Why are diamonds a Creationist’s best friend?

What do we know about diamonds?

- Super hard (10 on Mohs hardness scale)
- Impermeable carbon lattice → No contamination
- AI says “Most natural diamonds are **between 1 billion and 3.5 billion years old**. They were formed deep within the Earth's mantle under extreme heat and pressure.”

What is a *Half-Life*?

- Today ¹⁴C (radiocarbon) = **5,730** years
- The **time** in which 50% of the **unstable** ¹⁴C atoms **decay**
- **100% gone** in 6-8 half-lives, or 34-56,000 years
- The sensitivity of Accelerate Mass Spectroscopy is ~100,000 years (One ¹⁴C in 100,000 trillion C)

What is the answer?

Sample ID	Geological Setting	Country	¹⁴ C/C (pMC)
Kimberley-1	kimberlite pipe (Kimberley)	South Africa	0.02±0.03
Orapa-A	kimberlite pipe (Orapa mine)	Botswana	0.01±0.03
Orapa-F	kimberlite pipe (Orapa mine)	Botswana	0.03±0.03
Lethakane-1	kimberlite pipe (Lethakane mine)	Botswana	0.04±0.03
Lethakane-3	kimberlite pipe (Lethakane mine)	Botswana	0.07±0.02
Kankan	alluvial deposit	Guinea	0.03±0.03
NMBclr1	alluvial deposit	Namibia	0.31±0.02
NMBclr2	alluvial deposit	Namibia	0.17±0.02
NMBclr3	alluvial deposit	Namibia	0.13±0.03
NMByel1	alluvial deposit	Namibia	0.09±0.02
NMByel2	alluvial deposit	Namibia	0.04±0.02
NMBbrn2	alluvial deposit	Namibia	0.07±0.02

Average % Modern Carbon for the 12 diamonds: 0.09 ± 0.025