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Things We Think We Know: A Shallow Dive into Quantum Physics from A Biblical Perspective

Interestingly, we speak of things scientists do not understand as if we truly comprehend them. We accept the “what,” or the “it just is,” without really understanding the “how,” or “what it is.” There are numerous aspects of the cosmos that we take for granted; yet have little understanding beyond that they merely are. This is a shallow dive into Quantum Physics from a Biblical perspective.

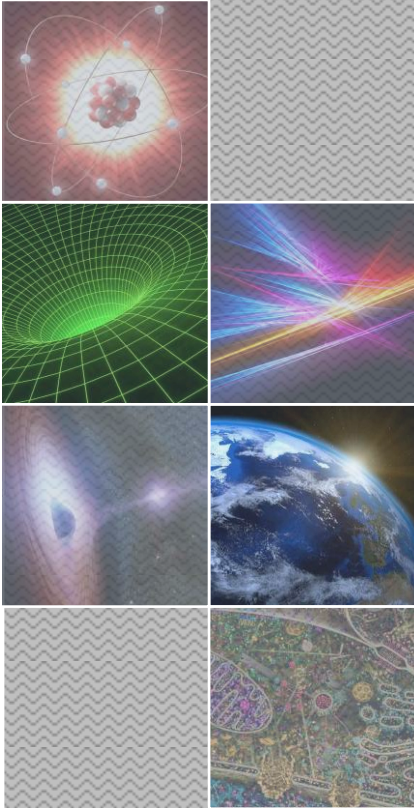


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Things We Think We Know

A Shallow Dive into Quantum Physics from a Biblical Perspective

Tim Day – January 2023



Romans 1:20 For the **invisible things of him from the creation** of the world are clearly seen, being understood by the things that are made, even his eternal power and Godhead; so that they are **without excuse**:

"**Reality is merely an illusion**, albeit a very persistent one." - *Albert Einstein's*

"If God should withdraw His hand a little, all things would immediately perish and dissolve into nothing." - *John Calvin*

Introduction

"You and I are slaves to time and space." – *AW Tozer*

We live in a rather **bazaar world**. It is a world that we tend to take for granted.

But, God's creation is truly marvelous. It is incredibly **intricate** and precisely **ordered**.

"**Design argues ... there is a God**. Where there is design there must be a designer." – *Nelson Price*

For centuries scientists have delighted in studying God's creation.

"To know the mighty **works of God**, to comprehend **His wisdom and majesty and power** ... surely all this must be a pleasing and acceptable mode of worship to the Most High, to whom ignorance cannot be more grateful than knowledge." – *Nicolaus Copernicus*

Einstein's three scientific heroes had one thing in common—they were all **Bible-believing creationists**.

Newton wrote more on theology than he ever did on science, believing the Bible to be God's Word.

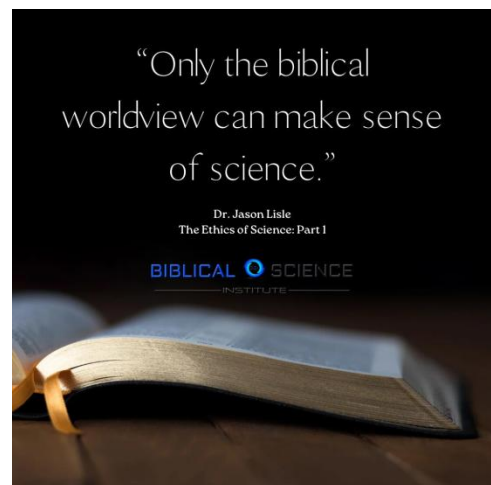
Faraday was a member of a very conservative offshoot of the Church of Scotland, known for their plain interpretation of the Bible.

Maxwell was widely read in theology; a solid evangelical Christian. He understood science not as a problem for God's unchanging Word, but as a problem for man's ever changing understanding of how the world works.

"The **chief aim of all investigations** of the external world should be to **discover the rational order and harmony which has been imposed on it by God** and which He revealed to us in the language of mathematics."

— Johannes Kepler

"I'm absolutely not an atheist ... The problem involved is too vast for our limited minds. We are in the position of a little child entering a huge library filled with books in many languages. The child knows someone must have written those books. It does not know how. It does not understand the languages in which they are written. The child dimly suspects a mysterious order in the arrangement of the books but doesn't know what it is. That, it seems to me, is the attitude of even the most intelligent human being toward God. **We see the universe marvelously arranged and obeying certain laws but only dimly understand these laws.**" - *Albert Einstein*



"'God' is a mystery. But a comprehensible mystery. I have nothing but awe when I observe the laws of nature. **There are not laws without a lawgiver**, but how does this lawgiver look? Certainly not like a man magnified." - *Albert Einstein*

My goal and objective is to leave you with an enhanced **awe, astonishment, appreciation, admiration and a glorious wonder of the power of God**.

"The God of the modern evangelical rarely astonishes anybody. He manages to stay pretty much within the constitution. Never breaks over

our bylaws. He's a very well-behaved God and very denominational and very much one of us, and we ask Him to help us when we're in trouble and look to Him to watch over us when we're asleep. The God of the modern evangelical isn't a God I could have much respect for. But when the Holy Ghost shows us God as He is we admire Him to the point of wonder and delight." – *AW Tozer*

"Reality is merely an illusion, albeit a very persistent one."

- *Albert Einstein*

Quantum Weirdness



"If quantum mechanics hasn't profoundly shocked you, you haven't understood it yet." - *Niels Bohr*

Oh, our world, indeed the cosmos, all seems perfectly normal to us at the physical level – the things that we see with the unaided eye.

But, once you drop into the **Quantum level**, it gets weird quickly. The Quantum Physics is the science of the fundamental building blocks of everything – the atomic and subatomic. – Including: *space, time, matter (atoms), gravity, light and energy.*

As it turns out, these five-six fundamental essentials of our universe are quite intriguing. In fact, they are inextricably interrelated in ways that are bizarre to our finite minds. We have a timeless and infinite God who exists outside the four dimensions – **three spatial and the fourth dimension of time** - which we are entrapped within.

Interestingly, we speak of things scientists do not understand as if we truly comprehend them. We accept the “what,” or the “it just is,” without really understanding the “how,” or “what it is.” There are numerous aspects of the cosmos that we take for granted; yet have little understanding beyond that they merely are.

There are **things we think we know**; there are things we think or assume that someone knows! But, surprisingly to most folks, we do not.

We know that they **are**, we do not know **what they are**. We know that it **is**, yet we do not know **what it is**. Scientists often wax so eloquently about these things, that it leaves the impression we know what they are. *We can measure them, define them, quantify them, speak of their properties, and even harness them, without knowing what they are.*

We can measure the quantitative aspects with precision without understating what exactly it is that we are measuring. We find ourselves trapped in them. They make up our **perceived reality**. Yet, we cannot fully grasp just what they are.

It is often surprising for the layman to learn that we do not know what **gravity, light, space, or time** are. We do not understand why, for example, according to Newtonian physics, an **atom** does not either collapse in upon itself or fly apart.

One would think that we would have by now figured out the fundamental building blocks of our universe, the *atom*. But, scientists have not.

At the macro level, scientists had pretty well defined the physics of our world. The laws of Newtonian physics are well understood and accepted.

Once we descended into the quantum level, to our surprise, Classical-Newtonian physics went out the window.

"If A.I. cannot figure out new physics (**Quantum Mechanics**), it's clearly **not equal to humans**. Physics is the law, everything else is a recommendation. Anyone can break laws created by man, but I am yet to see anyone break the laws of physics." – *Elon Musk*

This series is going to be a **shallow dive into Quantum Physics** from a **Biblical perspective**. Why, you say, would anyone want to do that? Because I'm a nerd! But, I am confident it will be fascinating, and more importantly, **enlarge your view of God** dramatically.

Theories of origin play an important role. There are two broad theories of **origins** - how our cosmos came to be. First is the Biblical perspective that **God created** it all. Secondly, is a secular belief that it all **came about naturally** – without cause.

"The Bible records that, in the beginning (time), God created the heavens (space) and the earth (matter). So the universe itself is a three-in-one of sorts, thereby reflecting its Maker." - *AlG*

There is a **trinity** reflected in the Trinity of God in God's creation. In fact, there are trinities within trinities, as we will see. As we shall see, we do not understand what hold the fundamental building block of our world together.

At some point, one simply has to believe, as Hebrews tells us, that "**God upholds all things by the power of His word.**"

I contend that the more we learn, the more it points to an all-powerful God – the **causeless first-Cause** of all things, the **uncreated Creator**, the eternal God.

John 1:3 **All things were made by him**; and without him was not any thing made that was made.

Romans 1:20 For the **invisible things of him from the creation of the world** are clearly seen, being understood by the things that are made, even his eternal power and Godhead; so that they are without excuse:

Hebrews 3:4 For every house is builded by some man; but **he that built all things is God.**

A Finite Beginning



I find this fascinating. **Einstein**, in his theory General Relativity, **added a constant**, a *fudge factor*, which did not belong.

This is the theory that states: *observed gravitational effect between masses results from their warping of space-time*. **Heady stuff**, to be sure.

He showed that the universe, the cosmos, was **not eternal**. It has a **definite beginning**.

Why did he add such a constant? Because the theory led to a **point of singularity**, before which, there was *no time, space, matter, light nor gravity - nothing*. It put him **face to face with God**, as it were.

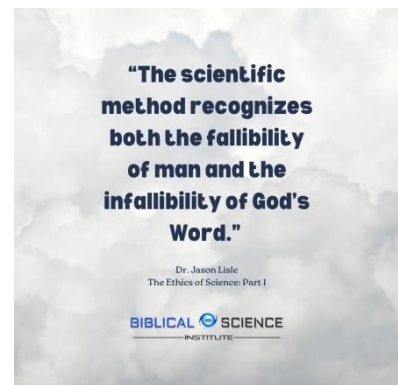
He did not like that; hence, the constant. He was **not the only one**:

“Philosophically, the **notion of a beginning** ... is **repugnant** to me. ... I should like to **find a loophole**.” – *Arthur Eddington, British Cosmologist, 1919*

Sadly, this became the basis of science for the past century and a half – looking for “*a loophole*.”

Called out by other scientists, Einstein removed it. Later in life he said it was the “**greatest blunder of my life**.”

“I now see the **necessity of a beginning**.” - *After viewing the “red shift” of distant stars; Albert Einstein*



As Einstein grew, he came to believe that there had to be a God.

“I want to know [God’s] thoughts, the rest are details.” – *Albert Einstein*

Causation



There has to be a **cause**. If there is a cause there is a **causative agent**. We, as Christians, know this agent as God.

“True knowledge is **knowledge by causes**.” – *Sir Francis Bacon*

"Only one thing must be remembered: there is **no effect without a cause**, and there is no lawlessness in creation." - *Albert Einstein*

This was the **basis of science** for centuries.

“Scientists concur that the universe is running down. This is known as the law of entropy. If it is not self-sustaining, neither was it self-creating.” – *Dr. Nelson Price*

So, who wound it up?

God is the great first cause ... the cosmological argument.

“We must **oppose both the Aristotelian notion of an eternal ‘matter’ and the Platonic notion of an eternal ‘receptacle.’**” - *John Frame* (Popular ancient pagan Greek philosophies.)

Another false view is that the universe is merely an extension of God Himself. This idea is known as **pantheism**, where creation and God are one—making creation itself divine.

Evolutionists criticize creationists for the doctrine of **creation ex nihilo** (from nothing) being unscientific, while they maintain their own version of **evolution ex nihilo** without a creator or logical first cause.

Evolutionists have no reasonable source, or first cause, for their paradigm of Big Bang ex nihilo cosmology (evolution ex nihilo).

“In 1973, I proposed that our **Universe had been created spontaneously from nothing** (ex nihilo), as a result of established principles of physics. This proposal variously struck people as preposterous, enchanting, or

both.” - *Edward P. Tryon, one of the first modern physicists to promote evolution ex nihilo. He recounted the whole concept.*

We can agree on the notion that the universe came from nothing. But, we differ on what caused something out of nothing.

“First and foremost, I’m getting really rather sick of cosmologists talking about universes being created out of nothing. Krauss repeatedly talked about universes coming out of nothing, particles coming out of nothing, different types of nothing, nothing being unstable. This is nonsense.” - *Astronomer Luke Barnes*

Theoretical physicists are really talking about when they refer to nothingness is the theoretical idea of a **quantum vacuum**. If a quantum vacuum did actually exist, it would not be ‘nothing,’ but a type of something. (*Space*)

“Regardless of the sophisticated mathematical apparatus leading the inflationary-universe cosmogonists to **their remarkable statement of faith in the omnipotence of nothingness**, there will continue to be a few realists who prefer the creationist alternative: ‘In the beginning God created the heaven and the earth.’” - *Henry M. Morris, founder of the Institute for Creation Research*

Secular cosmologists, **Big Bang** theorists, have a different theory of origins than Christians. If I can summarize the Big Bang theory in one sentence: ‘**first there was nothing, then it exploded.**’ They are essentially saying, ‘*nothing created something out of nothing.*’

I am sorry, but I *do not have the faith* to believe that. Although, first there was nothing – until God spoke.’ First there was nothing, is as far as our agreement goes.

I agree with **Shulz Peanuts** Series.

Lucy asked **Linus**, “do you believe in the Big Bang” “**Yes, God spoke and Bang there it was,**” Linus said.

“The chance of a world such as ours occurring without **intelligent design** becomes more and more remote as we learn of its wonders.” - *Nobel Prize-winning physicist Arthur Holly Compton*

“A common sense interpretation of the facts suggests that **a super intellect** has monkeyed with physics, as well as with chemistry and biology.” - *Atheist astronomer Fred Hoyle of Cambridge University*

Illusion



We live in an **illusion**; as we shall see. Apart from God, that is.

If you want to blow your mind, audit a **Quantum Physics** class at a university. You will be saying, '*but God, but God.*' Einstein did of the quantum world.

Speaking of the Quantum world, **Einstein** said that "***there are things we will never understand apart from God.***"

The **world is utterly dependent on God**; God is not at all dependent on the world.

John 1:3 **All things were made by him (Jesus); and without him was not any thing made that was made.**

Romans 1:20 For the **invisible things of him from the creation** of the world are clearly seen, being understood by the things that are made, even **his eternal power** and Godhead; so that they are without excuse:

Hebrews 3:4 For every house is builded by some man; but **he that built all things is God.**

God made it all; God holds it all together.

Most people are exposed to a **little science**; thus, they do not know how much they do not know. In fact, they do not understand **how much no one knows**. Most assume somebody knows. As a consequence, they **do not comprehend how seemingly impossible our universe is**.

"The more I study science, the more I believe in God ... The most beautiful thing we can experience is the Mysterious" – *Albert Einstein*

"The first gulp from the glass of natural sciences will turn you into an atheist, but **at the bottom of the glass God is waiting for you.**" - *Werner Heisenberg, who was awarded the 1932 Nobel Prize in Physics*

"A little science estranges a man from God. A lot of science brings him back." - *Sir Francis Bacon*

Sadly, we give our **kids** a "*first gulp,*" a "*little science.*"

The Plan



The objective of this series is to give a quick look at a “*lot of science,*” at the “*bottom of the glass.*”

As we dive into this series, I believe we will see two things become very clear – God created it and He holds it together.

Colossians 1:16 For **by him were all things created**, that are in heaven, and that are in earth, visible and invisible, whether they be thrones, or dominions, or principalities, or powers: **all things were created by him**, and for him: 17 And **he is before all things, and by him all things consist**.

Hebrews 1:3 Who being the brightness of his glory, and the express image of his person, and **upholding all things by the word of his power**, when he had by himself purged our sins, sat down on the right hand of the Majesty on high:

There can be no other explanation. At the Quantum Level, there are too many things that we simply cannot explain apart from God.

"The most **incomprehensible** thing about the universe is that **it is comprehensible.**" – *Albert Einstein*

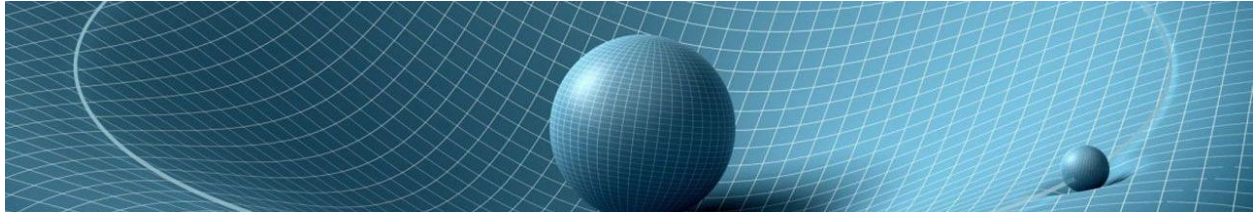
"I want to know how God created this world ... I want to know His thoughts, the rest are details." – *Albert Einstein*

Over the Next few sessions, we will take a closer look at these **Quantum variables**:

- I. **Gravity,**
- II. **Time,**
- III. **Light,**
- IV. **Space, and**
- V. **Matter (the atom) and Energy.**

Then we will wrap up with look at the **VI. Life: The Living Cell** – what was once called the “*simple cell.*” It is truly marvelous and staggeringly complex.

I. Gravity



You say, **surely we know what gravity is**. But, as you will see, we don't.

We know all about it; but, we do not know what it is.

In the simplest terms, **gravity is like a force that attracts two bodies** towards each other. Everything that has matter, meaning everything that can be touched, has a gravitational pull. This includes apples, humans and the Earth.

We experience gravity every day. Thank God our God is a **God of order**, consistent order. We can discover the things pertaining to our cosmos because they are consistent and ordered.

"Science is the process of thinking God's thoughts after Him." – *Johannes Kepler*

Imagine if gravity was random. Life as we know it would not be possible. You could wake up one day plastered to the ceiling; or, too heavy to get out of bed.

Consider the **precision of God**. If the universal gravitational force were altered by 0.000000000000000000000000000000000001 percent (*that is a decimal and 36 zeros and a one*), our sun would cease to exist. And, so would we.

So what is Gravity?

We know that gravity is relatively **proportional to the mass of an object**. Objects with more mass have more gravity. Distance also affects gravity. If an object is far away, its gravitational pull is weaker.

I am exerting a gravitational pull on you and vice versa. At our masses it is infinitesimally small.

When you go up to the size of the earth, or the moon, it becomes substantial.

According to physicists, the **four fundamental forces** of the universe are *gravitational, electromagnetic, weak and strong interactions*. Forces change an object's motion and the four fundamental forces define how everything in the universe interacts.

Gravity is the weakest force, but is the most easily seen and has the biggest influence on a large-scale level. It is not only the reason humans can walk on the Earth, but also keep the planets orbiting the sun.

“Gravity explains the motions of the planets, but it cannot explain who sets the planets in motion.” - *Isaac Newton*

It's said that **Galileo** dropped objects off the side of the **Leaning Tower of Pisa** to observe what happened when they fell. Whether the tower was involved or not, Galileo did discover that all objects tend to accelerate at the same rate when falling.

Another gravitation legend says that Isaac **Newton** was hit by a **falling apple** and realized that there must be a force making things fall to the ground.

Johannes **Kepler** built on these theories to calculate the orbits of known planets.

The gravity of the **moon** is the force that creates **ocean tides**. Gravity also keeps the Earth at a comfortable distance from the sun and **holds the atmosphere in place**, giving all living things breathable air and protection from the sun's radiation.

On **Earth**, we know that gravity accelerates an object at 32 feet / second².

Do you have **weight**? Is weight a property of 'you?' No. Weight is a force. You have mass, not weight. $F=MA$. When you step on the scales, gravity accelerates your mass toward the center of the earth. The force created, registers on the scales as weight. If you took your mass to Jupiter, you would weight 2.4 times more. If you were in 'weightless' space, away from a significant gravitational acceleration, you would have no weight. Weight is relative to gravity.

Weight is a measurement of the force of gravity between an object and the surface it stands on. If a person stands on a scale, gravity pulls the person against the scale.

This is the **best weight loss program** ever; move to the moon. Gravity on the **Moon** is approximately **16.6%** that on Earth's surface. No exercise or dieting required.

On **Jupiter**, gravity accelerates an object at **2.4 times more** or approx. 77 feet / second². If you lived on Jupiter you would weigh 2.4 times as much. Jupiter is 11 times wider than Earth. If Earth were the size of a nickel, Jupiter would be about as big as a basketball. Jupiter is about 318 times

as massive as Earth. Jupiter is so big that all the other planets in the solar system could fit inside it. You could put 1,300 earths inside of Jupiter. Gravity is only 2.4 times more, not 318 times more, because Jupiter is most made of gasses and its radius is 11 times that of the earth.

The nearest planet to Earth is **Venus**, and it also happens to be nearly the same size and mass as Earth. Venus is about 95% the size of Earth and 80% as massive. On the surface, the acceleration due to **gravity is 0.9 times the surface gravity on Earth**. Thus, on Venus you would weight about 10% less.

Our **Sun** is 93 million miles away. It is huge. It is 864,000 miles in diameter, which makes it 109 times wider than Earth. It holds 99.8% of the solar-system's mass. You could put 1.3 million earths inside the sun. The **Sun's gravity is about 28 times that of Earth**. Thus, you would weigh 28 times more before you burned up. Its large gravitational force holds the planets of our solar system in orbit.

The pull of gravity can be calculated by multiplying together the masses of the two objects and then dividing by the square of the distance between them. So the attractive force of gravity goes up as either of the objects' masses increases, or as they get closer together.

Why do **astronauts** aboard the **International Space Station** seem to **float**? Most believe that it is because there is no gravity in space. But, that is not true. The sun's gravity keeps the planets in orbit. The earth's gravity keeps the moon in orbit. There is gravity in space. You would have to travel 215,000 miles from the earth before the earth's gravitational affect becomes near zero.

The ISS is only about 200 miles above Earth—where gravity is 90% as strong as it is here on the ground. A 200 lb person on earth would weight about 180 lbs on the ISS. They experience weightlessness not because of a lack of gravity, but because they are orbiting Earth in constant free fall. They are constantly falling toward Earth and moving forward at about the same velocity causing the ISS to follow a curved orbit around the earth.

We might expect them to crash into the Earth's surface, but they are also moving sideways at just the right speed to keep missing – that's what being in orbit involves. Because the downward and forward forces are nearly equal, the astronauts are not pulled in any specific direction, so they float. The astronauts are not in zero gravity, but rather in free fall.

But what is gravity? We do not know.

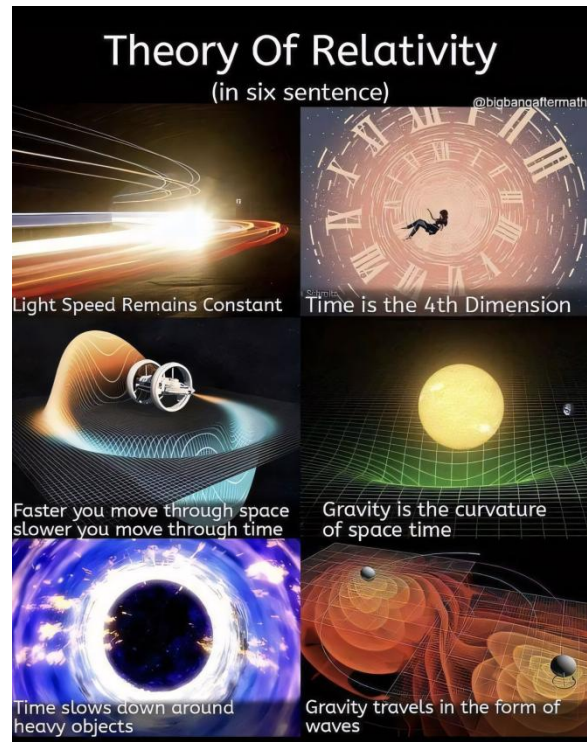
The equivalence principle is based on what **Albert Einstein** described as his “*happiest thought*”. This was that “*if a person falls freely, he will not feel his own weight*”. In other words, acceleration and gravity are exactly equivalent and indistinguishable.

Einstein stated that “*gravity is the outworking of the curvature of space and time.*” Okay, I don’t know about you, but that clears it all up for me. “The curvature of space and time,” what? Einstein, could you come back and elaborate on that a bit.

Einstein's Theory of **General Relativity** changed the way physicists look at gravity. Rather than a force, the effects of gravitation are said to be **caused by a curve in space-time** that occurs around large objects, rather like a bowling ball sitting on a trampoline. This theory explained the strange orbit of Mercury and set Newtonian gravity on its head as gravity was **no longer a force**, but a consequence of geometry.

Newton famously stated that he did not have a hypothesis for how gravity worked. Scientists have postulated “**gravitons**,” like photons in light as a description of the force of gravity.

A new theory suggests that gravity may not be fundamental, but instead an emergent force arising from the universe’s drive toward entropy.

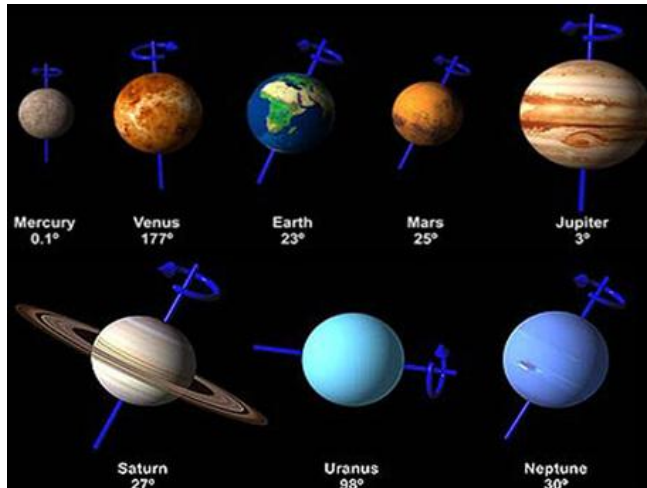


The Theory of Relativity explains some anomalies in **Newtonian** gravity; there are still mysteries in the universe that scientists can't explain. Gravity doesn't fit into Quantum Field Theory and scientists are still researching how it pieces together with the other fundamental forces.

Is there **up and down**? Is there a right-side up? No. It is relative. Without gravity, there is no up and down. Remember gravity accelerates your mass toward the center of the earth. It creates the illusion of up and down. Those, ‘*down under*’, in Australia feel as right-side up as we do in the northern hemisphere. In space, away from a significant gravitational acceleration, there would be no up or down. Thus, if you turn “upside down,” as it were, would the blood rush to your head? No. Up and down is relative. Up and down are relative to gravity.

“All sin leads down; it is like gravity.” - *Smith Wigglesworth*

Thus, there is no up or down, left or right, north or south, east or west. It is all relative.



Only God could conceive of Gravity. A means of makes sense of living on a sphere, where even thos who are “upside down” feel “right-side up.”

What is **G-force**? “G” stands for gravity. The G-force is equal to the acceleration of gravity of a mass at sea level. One G-force is the weight you experience at sea level. Two-G’s would be double that force. Remember gravity accelerates an object with mass. When you step hard on the gas in your car, you feel G-force as you accelerate. It is the force that pushes you back into your seat. It helps to understand how Gravity is acceleration, not really a “force.”

If I **drop a feather and a brick** in a vacuum, will they fall at the same rate? Yes. Gravity accelerates objects equally, regardless of mass. A feather dropped in a medium, air for example, would fall slowly. Not because it has less mass; but, due to the air resistance.

We don’t know what gravity is, but we know that it is. In fact, we know all about it.

Scientists would like to be **able to generate gravity**. Astronauts would love to have gravity on the space station. But, we cannot.

Gravitational Ripples

A body with mass warps space and time, so if that body accelerates through space it should cause **ripples** in the space-time around it.

These ripples are called gravitational waves and move outwards. **Gravitational waves**, which Einstein predicted shortly after developing his General Theory of Relativity, should be produced all the time from vast numbers of sources. However, gravity is an extremely weak force, which means that these waves are extremely difficult to detect.

We will talk about these again when we talk about **Space**.

Time Dilation

Another of the predictions of Einstein's equations is that being near a massive body slows **time** down: this is why we need to correct the signal from the GPS satellites that give us sat-nav. We will discuss this more when we discuss **Time**.

So what is **time**? Next *time*, pardon the pun, we will dive into **Time**.

So, for now, we are just beginning to see how mysterious our word, the cosmos, really is. God has created forces that we still do not fully understand.

II. Time



What is time? Time we are experiencing, how we measure it, is somewhat of a **social construct**.

Time is a **dimension**. It is the *fourth dimension* that we live in.

Genesis 1:1 **In the beginning God created** the heaven and the earth. ...
5 And God called the light Day, and the darkness he called Night. And the evening and the morning were **the first day**.

John 1:1 **In the beginning** was the Word, and the Word was with God, and the Word was God.

Time was created in the *Genesis account*.

Before God “**spoke**” there was **nothing** - no *time, space, matter, light nor gravity*.

God “spoke” it all into existence. He now “*upholds all things by the power of His word.*”

Hebrews 1:3 Who being the brightness of his glory, and the express image of his person, and **upholding all things by the word of his power**, when he had by himself purged our sins, sat down on the right hand of the Majesty on high:

God is outside of the dimension of time. **God does not change** as we do in time.

Malachi 3:6 **For I am the Lord, I change not**; therefore ye sons of Jacob are not consumed.

Hebrews 13:8 Jesus Christ the **same yesterday, and to day, and for ever**.

This is the **Immutability** of God

As Lord, he is in **full control of it**, and he authoritatively **sets its boundaries**.

We cannot get our *heads around that*. We are trapped in God's creation – in the **three spatial dimensions**, and the **fourth dimension - time**.

“Our very **minds are locked in space and time**, and therefore we cannot even conceive of anything ‘beyond’ space or ‘before’ time. ... But what we cannot understand, we simply believe, for God cannot lie.” – *HMM, ICR*

Time exists only when matter exists. But, God is not matter; God created matter.

[Animal House] Smoking pot, ‘Atom on the thumbnail of God.’

The bottom line is this: **time began when God created the universe.**

In a real sense, time is an **illusion**. It is an illusion of God's creation.

Time implies limits. Time is itself a creation of God. That means that his relation to time is very different from ours. **God does not depend on time**, nor does He exist within time. He is the **Lord of time**. He is not limited by time.

Relativity

In the early 1900s, scientists held to the **Newtonian** view of the world. Then Albert Einstein changed everything. In 1905, Einstein published his theory of *general relativity*:

"Time is **not absolute**. The dividing line between **past, present, and future is an illusion**." - *Albert Einstein*

There is no preferred frame of reference. ... *The **faster** you move through space, the **slower** you move through time, for example.*

This is why I travel faster on the highway than you do. As I zip past you, I am aging slower than you are. It is true; but, it is an infinitesimally small difference at these speeds. Nonetheless, it is my excuse to a highway patrolman.

Time is relative to velocity, and in particular, the speed of light. Time does not slow down for you as you approach light speed. From your perspective, time passes normally. Instead, you observe time to be accelerating for all others you are moving relative to. For the observer, time slows down close to the speed of light, and indeed at the speed of light no time passes at all. Approaching the speed of light, a person inside a spaceship would age slower than his twin at home.

"When a man sits with a pretty girl for an hour, it seems like a minute. But let him sit on a hot stove for a minute -- and it's longer than any hour. That's relativity." - *Albert Einstein*

Einstein overthrew Isaac Newton's idea of "*absolute time*." **Newton** thought time marched onward everywhere at an identical pace. ... Now we know that is not true.

Space-Time

In 1915, **Einstein** showed that anything with *mass will distort the fabric of space-time* — an effect we experience as the force of **gravity**.

You can think of **gravity** as **putting the brakes on the flow of time**. This mind-bending idea means that **clocks** nearer to the Earth's gravitational field run slower compared with those farther from it — a phenomenon called **time dilation**.

The effects of gravity, as well as the **satellites'** speed above the Earth relative to observers on the ground, make the unadjusted satellite clocks gain 38 microseconds a day. Einstein explains that what we perceive as the force of gravity arises from the curvature of space and time. Light always travels at a constant speed. Thus, time passes faster for the clock in the weaker gravitational field.

[Atomic clocks – Greenwich-Boulder; satellites; velocity-space craft]



Quantum Physicists now believe that **what you do in the present and future affects what happened in the past**. Dodo, dodo ... Called **Retrocausality** ... Granted, they may be smoking dope.

C.S. Lewis theorized that if we assume that God exists and God is not in time, an action taken now could influence an event in the past. {Careful with CS Lewis}

Time is **relative**. We can **bend** time, **shape** time, **slow** time down, and **speed** time up. Time is **relative** to *velocity* and to an *observer*. Time is affected by **gravity** and vice versa. *Light, space, gravity, matter and time* are inextricably linked. Why? No Idea!

One of the fundamental **mysteries** surrounding the **concept of time** is whether it's **actually continuous** and our **chronological** measurements are just a way of making the sense of the world.

New Theory

Time, not space plus time, might be the single fundamental property in which all physical phenomena occur, according to a new theory by a University of Alaska Fairbanks scientist.

The theory also **argues that time comes in three dimensions** rather than just the single one we experience as continual forward progression. **Space emerges as a secondary manifestation.**

"These three time dimensions are the primary fabric of everything, like the canvas of a painting," said associate research professor Gunther Kletetschka at the UAF Geophysical Institute. "Space still exists with its three dimensions, but it's more like the paint on the canvas rather than the canvas itself."

Those thoughts are a marked difference from generally accepted physics, which holds that a single dimension of time plus the three dimensions of space constitute reality. This is known as spacetime, the concept developed more than a century ago that views time and space as one entity.



Alpha - Omega

Jesus is the author and finisher of our faith; He is also the ***beginning and end.***

Revelation 22:13 I am **Alpha and Omega**, the beginning and the end, the first and the last.

Revelation 1:8 I am **Alpha and Omega**, the beginning and the ending, saith the Lord, which is, and which was, and which is to come, the Almighty.

Eternal Jesus spoke from Eternity to create *time*, then He stepped out of Eternity into time **to divide *time and rescue man (Emmanuel)***, after His Atonement was complete He **left *time* stepping back into Eternity**, and He will come again into time one day **to bring time to an end.**

Luke 1:78 Through the tender mercy of our God; whereby **the dayspring from on high hath visited us,**

“Jesus Christ was born into this world, not from it. He did not evolve out of history; **He came into history** from the outside.” – *Oswald Chambers*

Revelation 10:6 And sware by him that liveth for ever and ever, who created heaven, and the things that therein are, and the earth, and the things that therein are, and the sea, and the things which are therein, **that there should be time no longer:**

When God spoke, **nothing** became something – *space, time, matter*.

Creation **ex nihilo ... out of nothing**.

Yom

Time as we define it is an arbitrary measurement.

Time as we know it was defined by God. Biblically the day begins at either sunrise or sunset. Genesis describes a day as a **24-hour day**, or one rotation of the earth. Hebrew “**yom**.”

If you lived on Jupiter your day would be 10 hours long, and your year would be 12 earth years.

God exists outside of the dimension of time. The notion of **time** itself begins to paint the picture of just how big God is – in eternity, outside of the dimension of time.

Time and Light are related too; so what is **Light**?

III. Light



God said, 'let there be light.' Thomas Edison said, 'I'm on it Lord.'

Light is bazaar.

The Speed of Light is the **upper limiter of velocity**. Why? No Idea!

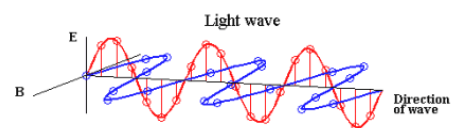
Light travels at 186,000 miles/second. It could travel around the **earth 7.5 times** in one second. Don't try this at home ...

But, **if you could**, as an object with mass, **reach the speed of light**, once you reached the speed of light you would be **instantly everywhere all at once, and time would cease**.

Isn't interesting that **God** describes Himself in terms of **Light** so often in Scripture? He is **outside the dimension of time and infinitely everywhere all at once**.

I pondered such notions in Quantum Physics classes.

While we take it for granted, light is an unusual phenomenon. It is the **limiting factor for Newtonian Physics**. In Einstein's famous **special relativity** equation **$E=MC^2$** , light (quotient 'C') is a key variable. Special relativity is an explanation of how speed affects mass, time and space.



Energy equals Mass x Speed-of-light². As an object approaches the speed of light, the object's mass becomes infinite and so does the energy required to move it. That means it is impossible for any matter to equal, or go faster than, the speed of light.

Nothing, we believe, can exceed the speed of light. Light **bends around a gravitational pull**. Light is triune; it behaves as a **particle, a radio-magnetic wave, and a photon**. Once you begin to see how unusual light is in fact, it sheds some light (*pun intended*) on why God may have described Himself as light.

Light has no shadow.

God Created Light and Darkness

God created Light in the Genesis account.

Genesis 1:3 And God said, **Let there be light**: and there was light.⁴ And God saw the light, that it was good: and **God divided the light from the darkness**.

... (Notice that the Sun, Moon & Stars were not created until day four)

Hebrews 11:3 Through faith we understand that the worlds were framed by the word of **God**, so that **things which are seen were not made of things which do appear**.

Initially, the created cosmos was in darkness—a darkness that God Himself had to create (“*I form the light, and create darkness*”—Isaiah 45:7).

But then the dark cosmos was energized by the Spirit’s moving, and God’s light appeared. The darkness was not dispelled, however, but only divided from the light.

Properties of Light

Objects with mass cannot reach the speed of light. Objects without mass only exist at the speed of light.

Light is a **wave**. It is part of the **electromagnetic spectrum**, which ranges from radio waves to gamma rays. We see in the **visible spectrum**. However, God could have allowed us to see in the Infrared. Some animals do.

Light has the properties of a **Particle**. Light exerts a **force** on you. Yet, it has no mass. Why? How? No idea! This is why you turn the lights off when you go to bed. Just kidding! The force is infinitesimally small.

The dual nature of light as "*both a particle and a wave*" is an essential theory leading to quantum mechanics (atomic-level physics).

Light also has properties of a **photon**. As quanta of light, photons are the smallest possible packets of electromagnetic energy.

Light is, indeed, a paradox.

In a strange quirk of quantum physics, two fundamental light particles (photons) can be "*entangled*" ... **Quantum Entanglement**. They share properties no matter how far apart they are. Thus, they can be theoretically used to communicate information between two points on Earth.

Light is affected by gravity. General Relativity (our best guess as to how the Universe works) tells us **gravity can bend light**, according to Einstein and NASA. Light curves near gravitational field, while breaking Newton's gravitational law.

Photons can be pulled by gravity not because of their mass (they have none) but because **gravity bends space-time**.

Visualizing the Speed of Light

With the flip of a switch, your room can be instantaneously flooded with the brightness of light. In fact, there is no noticeable time lag effect at all. That's because emitted photons travel at 186,000 miles per second, meaning it takes only 1/500,000th of a second for light to reach even the furthest part of an ordinary room.

Light Speed is Slow

Once a photon is sent into the vast abyss, suddenly the fastest possible speed seems somewhat pedestrian.

- **Moon:** It takes about **1.255 seconds** for light to get from Earth to the moon.
- **Mars:** Mars is about 150x further than the moon — about **40 million miles** in the closest approach — so it takes **3 minutes** to get there from Earth.
- **Sun:** The sun is **93 million miles** away, meaning it takes **8 minutes** to see its light on earth.

Let that sink in for a moment: the sun could burn out right now, and we wouldn't even know about it for eight long minutes.

Going Further, Taking Longer

If it takes light a few minutes to get to the closest planets, how long does it take for light to travel further away from Earth?

- **Jupiter:** The largest planet is 629 million km away when it's closest, taking light about **35 minutes**.
- **Saturn:** The ringed planet is about as twice as far as Jupiter, taking light **71 minutes**.
- **Pluto:** It takes about **5.5 hours** for light to go from Earth to the dwarf planet.

- **Alpha Centauri:** The nearest star system is **4.3 light years away**, or **25 trillion miles**.
- **Visible stars:** The average distance to the 300 brightest stars in the sky is about **347 light years**.

On Earth, light appears instantaneous – but, anywhere else in the universe, it's pretty inadequate for getting anywhere far (especially, in contrast to the average human lifespan).

A spacecraft traveling at the speed of light would never reach the edge of the known universe; because, the universe is expanding faster than the speed of light. How?

Light is Life

The sun is the light of the earth – allowing Physical life.

Biblically speaking **Light is Truth** – God Himself – Spiritual Life.

John 1:4 In him was life; and the life was the **light** of men. 5 And the **light** shineth in darkness; and the darkness comprehended it not. ... 8:12 Then spake Jesus ... I am the **light** of the world: he that followeth me shall not walk in darkness, but shall have the **light** of life.

John 12:36 While ye have **light**, believe in the **light**, that ye may be the children of **light**. ...

Matthew 5:14 Ye are the **light** of the world. ...

1 John 1:5 ... God is **light**, and in him is no darkness at all

Light is Triune

Like man and God, light has properties of *Photon, Particle, and Electromagnetic Wave*.

Fixed Speed

No matter how fast you travel or in what direction, all **light** always moves at the same speed, and this is true for all observers at all times. **The speed of light is not relative** to any observer.

If two **cars** are traveling at 30 mph each, directly towards one another, how fast are they approaching each other – what is the closing speed? 60 mph. It is the sum of two speeds.

If two cars are traveling at the speed of light each, directly towards one another, how fast are they approaching each other – what is the closing speed? They are closing at the speed of light, 186,000 mps. Why? Why is it not the sum of two speeds? Because, the speed of light is the upper limiter on velocity.

Moreover, anything that's made of matter can only approach, but never reach, the speed of light. If you don't have mass, you must move at the speed of light; if you do have mass, you can never reach it.

Theorized quarks, leptons, neutrinos, and even the hypothesized dark matter all have masses as a property inherent to them. Objects made out of these particles, like atoms, and human beings all have mass, too. As a result, they can approach, but never reach, the speed of light. If you could you would infinitely massive and everywhere all at once.

Light seems so fast to us on earth. But, in **space** it seems slow. So what is **space**?

IV. Space



Surely, you saw, we know what space is. It is **absence of something between things**; therefore, nothing, you say. Well, not exactly. We tend to think of space as empty – or nothingness.

Space is an **almost perfect vacuum**, nearly void of matter and with extremely low pressure. In space, **sound doesn't carry** because there aren't molecules close enough together to transmit sound between them. In space, no one can hear you scream. ... A great place for kids ...

Space is the seemingly **boundless three-dimensional extent** in which objects and events have relative position and direction. In classical physics, physical space is often conceived in **three linear dimensions**, although modern physicists usually **consider it, with time**, to be part of a boundless four-dimensional continuum known as **space-time**.

“The vastness of space “declares” His power and sovereign control over all.” – *ICR, HMM*

'**Outer space**' begins about **62 miles** above the Earth, where the shell of air around our planet disappears.

We think of space as nothingness. It turns out that the nature of space itself is one of the biggest and strangest mysteries in the universe.

So we send a **spacecraft** to Mars, is it flying through nothing? We see **ripples in space**, are we seeing ripples in nothing? The light travels from the sun or distant stars, is it traveling through nothing? Einstein showed that a **mass warps space**? Is it warping nothing?

If space were really nothing, we would not be able to measure it. Is space is “**expanding**,” is nothing expanding? Einstein’s theory of general relativity states that gravity is the bending of space. Is nothing bending?

We can see from the motion of planetary objects that they appear to be moving through a medium; what is referred to as the “**fabric of space**.” According to planetary motion, the troubled Big Bang model, and the expansion of the universe, there is something that makes up what we call space.



Long ago, people thought that **empty space** was just what it sounds like: a **featureless void or a vacuum**. But, the more we have studied seeming emptiness, the more we have shown that this is far from the truth.

The air around us is full of jostling gas molecules. In space proper, beyond our atmosphere, there are quantum fields and particles of light. Even the emptiest corner of interstellar wilderness isn't devoid of character because space itself can warp and curve.

Gravitational waves, first predicted by Albert Einstein in 1916 as a consequence of his theory of relativity, are **disturbances in space-time** caused by the movement of very dense objects. They travel at the speed of light and were first detected in 2015 by the Laser Interferometer Gravitational Wave Observatory (LIGO)

"We can't see the early universe directly, but maybe we can see it indirectly if we **look at how gravitational waves** from that time have affected matter and radiation that we can observe today." - *Deepen Garg, Journal of Cosmology and Astroparticle Physics.*

What Makes up Space

Dark Matter and Dark Energy have been the conventional theory for decades. It's dark, you can't see it! ... **Anti-matter** is a competing theory. The opposite of matter! Particles in space appear and disappear. There is enough energy in a cup full of space to boil and evaporate all of our oceans.

All the matter that we can see belongs to only **4% of the Universe**. The rest of the 96% is theoretically occupied by space - dark matter and dark energy or antimatter. Both theories arise in support for the waning theory of the Big Bang. But, both are losing traction in the absence of any empirical data to support the theories.

Einstein showed that space and time are interdependent. That is, space and time are both parts of a single structure, which we call space-time.

Material objects require space-time in order to exist. Any physical object has a location in space and time. So, in one sense, space-time is like a grid with physical objects located within it. However, Einstein found that any physical object (mass) distorts the grid. Matter "bends" space-time, and space-time tells matter how to move.

The way we now understand space dates back to 1915, when Einstein published his theory of **general relativity**. It is built upwards from his realization that the way objects respond to gravity and acceleration is indistinguishable, which we now call the *equivalence principle*. The theory tells us that space and time cannot be considered separately, but only as a kind of **four-dimensional canvas** for reality.

As if that wasn't enough, Einstein also showed that any object with mass could warp and deform space-time, like a higher-dimensional version of a bowling ball on a trampoline. It was these undulations in space-time that gave rise to gravity.

The latest theory is that space is made of **Information**. We will see how it plays out. But, space is not understood.

For example, it is assumed that light can move through empty space. But, like sound, conventional science expects there to be a medium through which light travels, or a space craft navigates.

In fact, it is postulated that the **fifth form of matter is Information**. Research has suggested that all elementary particles store information about themselves, like the way humans have DNA. If true, *Information* is the fifth form of matter, alongside another state of matter: *solid, liquid, gas, and plasma*.

God is outside of space, time, and lastly, matter.

So what is **Matter**? This is where it gets really interesting. This is where things get even weirder – in fact, really weird!. This is where we begin to see the impossibility of our Universe, apart from God.

Next, we will dive head long into the **Quantum** Level of our universe with a look at the strange little **atom**.

V. Matter (Atom)



The atom is the **fundamental building block** for everything that is **matter** and *even life*. One would assume that we now understand this tiny elementary structure. But, one would be wrong. There is much we cannot understand.

“You can’t believe an atom, they make up everything.”

The Bohr model, introduced by Danish physicist **Niels Bohr** in 1913, was a key step on the journey to understand atoms. What we learned in Chemistry class about the atom is theoretically true. The **cute electron orbits** are a working theoretical representation used in **covalent modeling** actually work in practice. But, beyond that, it is not exactly what is going on in an atom in reality. The **truth is stranger than fiction**.

Many a scientist has thrown up his hands when faced with quantum weirdness, declaring that must be God holding everything together.

“God created everything by number, weight and measure.” – Sir Isaac Newton

God made it all ... out of nothing but His Word. At the end of the day we can conclude that God spoke everything into existence.

Genesis 1:1 In the beginning God created ... 3 And **God said** ... light. ... 6 And **God said** ... firmament ... 9 And **God said** ... waters ... 11 And **God said** ... grass ... herb ... tree ... 14 And **God said** ... lights ... 20 And **God said** ... moving creature ... 24 And **God said** ... living ... 26 And **God said**

Hebrews 11:3 Through faith we understand that the worlds were framed **by the word of God**, so that things which are seen were not made of things which do appear.

Colossians 1:16 For **by him were all things created**, that are in heaven, and that are in earth, **visible and invisible** ... 17 And he is before all things, and **by him all things consist** (in him all things hold together).

“God does not play with dice” – Albert Einstein

God made it all ... out of Atoms (which He spoke into existence). Everything except energy is made of matter, which means that everything in the universe is made of atoms. Yet, as we will see atoms are energy.

Quantum mechanics describes how things work in the incredibly tiny world of particles and particle interactions. Quantum theory (physics at the atomic level) attempts to provide accurate predictions of the behavior of atoms and molecules, revealing the world of the very small in all its glorious strangeness. But it doesn't actually make sense of the universe.

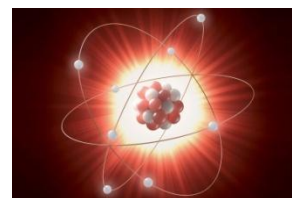
Quantum Physics/Mechanics

Is a branch of physics that deals with the mathematical description of the motion and interaction of subatomic particles. Quantum mechanics gradually arose from theories to explain observations which could not be reconciled with classical Newtonian physics.

Planck ... considered his quantum hypothesis a **mathematical trick to get the right answer** rather than wait for a sizable discovery. Planck's constant, is a fundamental universal constant that defines the quantum nature of energy and relates the energy of a photon to its frequency.

General relativity and quantum theory continue to be confirmed time after time. Yet it seems they can't be the complete description of reality because they are mutually incompatible.

For starters, we still don't understand key tenets of quantum weirdness. Take **Quantum Entanglement**: the existence of a *telepathic link between spatially separated particles* runs counter to all our ideas about how the universe works. Nor do we have a grip on what distills the objective, classical reality we see from the *myriad possibilities for what a quantum object might be when it is measured*.



How do electrons keep whirling around the nucleus *without ever slowing down*? They **defy the Second Law of Thermodynamics**. Where do they get their perpetual energy to keep moving? In the earliest attempts at the atomic model, scientists took their inspiration from the solar system, which has a dense "nucleus" (the sun) surrounded by orbits of smaller particles, electrons (the planets).

It gets worse. Zoom out a tiny bit and you realize that you **cannot derive the rules of chemistry** – how atoms and molecules combine, and the properties of those combinations (covalent modeling) – **from current quantum theory**. The interaction of multiple atoms makes their energy structure more difficult to predict. Bohr's model also didn't take into account some of the key quantum physics principles, most importantly the odd and mind-boggling fact that particles are also waves.

Size of an Atom

"Atom" literally means "**indivisible**". An atom is a million times smaller than the thinnest human hair. The diameter of an atom ranges from about 0.1 to 0.5 nanometers (1×10^{-10} m to 5×10^{-10} m). ... a trillionths of a meter.

If an apple were enlarged to the size of the Earth, its individual atoms would be the size of regular apples. Imagine that the nucleus of an atom was the size of our sun. In that case, the closest electron would be beyond Mars. About five million-million hydrogen atoms could fit on the head of a pin.

Unlikely Atom

According to classical Newtonian physics, an atom should do one of two things: it should **fly apart**, or **collapse** in upon its self and self-destruct. It does neither. Why? We do not know.

Our chemistry teachers told us electrons are negatively charged, protons are positive, and neutrons are neutral, **so there you go**. What do you mean there you go? Since when is a positive charge attracted to a neutral. It isn't.

The force that holds the nucleus of an atom together is called the **Strong Force**. What is it? No idea. We know that it is **relative**. If I pull a proton and neutron gently apart, it pulls gently back. If I pull harder apart, it pulls harder back.

Remember the cute little **pictures of atoms** in chemistry class, with their nucleus and electrons in their separate orbits, when you were doing **covalent modeling** – creating theoretical molecules from atoms. It is a working theory that works in practice. But, the reality is nothing like that at all.

We do not even talk anymore of electron orbits, rather as **electron clouds** or **shells**. If I get within six feet of you, our electrons are flowing back and forth at will. We now talk of electron movement in terms of **fluid dynamics**. Electrons simply flow.

By the 1920's, it became clear that a tiny object such as the electron cannot be treated as a classical particle having a definite position and velocity. The best we can do is to specify the **probability** of its manifesting itself at any point in space.

"Atoms are weird stuff, behaving like **active agents** rather than inert substances. They make unpredictable choices between alternative possibilities ... It appears that mind, as manifested by the capacity to make choices, is to some extent inherent in every atom." - *Physicist Freeman Dyson*

The best we can do to predict the appearance of an electron is probability. It is an educated mathematical guess. Chance is not exactly a precise science.

We now know that an atom can be in more than one place at the same time.

What's in an Atom

Atoms consist of **three basic particles**—*protons, neutrons, and electrons*. Simply by *rearranging three particles, God formed millions of substances*, each with its own texture, appearance, smell, and other unique properties.



Ordinary matter is comprised of atoms. Amazingly, atoms also have a **three-in-one nature**. They are comprised of three types of particles—*protons, neutrons, and electrons* (except hydrogen, which normally does not have neutrons). Protons and neutrons also are each comprised of three smaller particles called quarks. It is interesting that some people reject the **trinity** on principle, while simultaneously accepting the many three-in-one examples we see in nature.

Electrons are generally thought to be elementary particles because they have no known components or substructure. The electron has a mass that is approximately 1/1,836 that of the proton. Yet, they **behave as a fluid**.

“Electron vortices are expected in theory, but there's been no direct proof, and seeing is believing. Now we've seen it, and it's a clear signature of being in this new regime, where **electrons behave as a fluid**, not as individual particles.” - *Leonid Levitov, professor of physics at MIT*

The **electron** is traveling at about 2,200 kilometers per second. That's less than 1% of the speed of light, but it's fast enough to get it around the Earth in just over 18 seconds.

An atom has a **nucleus**, that contains *protons and neutrons*, and those particles are theorized, in turn, to be made of quarks and gluons--particles that bind atomic particles together. But most physicists believe quarks to be the smallest building blocks of matter. A quark or gluon has never been observed.

What holds protons and neutrons together is called the **Strong Force**. Again, it is not understood. Strangely, the harder you attempt to pull these two particles apart, the harder they pull back together.

The positively charged particle at the heart of the atom is an object of unspeakable complexity, one that changes its appearance depending on how it is probed.

Atoms are mostly **empty space**. The protons and neutrons in the center -- is 10,000 times smaller than the total diameter of the atom. Yet, nearly all of the mass of an atom is in the nucleus. When you start to consider that atoms are about **99.999999999999%** **empty space** and they make up 100% of the physical universe, you can start to see: you're made up of essentially nothingness. Every human on planet Earth is made up of millions and millions of atoms which all are 99% empty space. Weird!

A single speck of dust is half way in size between a subatomic particle (a quark) and the Earth (proportionality). **Quarks** have not been directly observed, but theoretical predictions based on their existence have been confirmed experimentally. Quarks may exist! However, we are not able to see them directly, since the strong energy force between them increases as we tried to separate them from each other.

The **Hiroshima atomic bomb** released enormous energy from a mass of **Uranium** the size of a **small pea**.

Defying Physics



According to **Newtonian Physics**, the electrons should zoom right to the atomic nucleus or fly away. By the laws of classical physics, electrons should collapse into the nucleus even if they weren't attracted by the charge of the proton.

Colossians 1:17 And he is before all things, and **by him all things consist**. (*things hold together – NIV*)

The proposal, first made in 1913, that the **centrifugal force of the revolving electron just exactly balances the attractive force of the nucleus** (in analogy with the centrifugal force of the moon in its orbit exactly counteracting the pull of the Earth's gravity) is a nice picture, but is simply **untenable**.

By the 1920's, it became clear that a tiny object such as the *electron* cannot be treated as a classical particle having a definite position and velocity. The best we can do is to specify the **probability** of its manifesting itself at any point in space. Chance is not exactly a precise science.

“Atoms are **weird stuff**, behaving like active agents rather than inert substances. They **make unpredictable choices** between alternative possibilities ... It **appears that mind**, as manifested by the capacity to

make choices, is to some extent inherent **in every atom.**" - *Physicist Freeman Dyson*

When Einstein died, there was an opening for the title of "*most brilliant physicist on the planet.*" **Freeman Dyson** essentially filled the opening by assuming Einstein's professorship in physics at Princeton University.

As a result of quantum mechanics, the motion of the electrons around the nucleus cannot be exactly predicted. It is **impossible to pinpoint the velocity and position of an electron** at any point in time. The **shells** in which these electrons orbit are therefore not simple lines but rather diffuse, less defined **clouds**.

The Grand Illusion

From the writings of Nikola Tesla we find that the universe is an illusion. We look around us using our physical sense of sight, and see objects that appear as solids.

What we perceive to be solid objects are in fact at an atomic level, not so solid at all. In fact, atoms are **99.999999999999% empty space!**

"Space is just a construct that gives the illusion that there are separate objects" – *Dr. 'Quantum'*

This can be a mind-numbing idea if one is to say, punch a brick wall or even simply go sit on a chair. We can feel the wall we punch and the chair we sit on. But the truth is, your fist never actually hits the wall and your bum never actually hits the chair. What you are feeling is merely pressure...**forces interacting at an atomic level** and your nerve endings are simply reacting. How so?

Because everything that appears solid are again full of atoms. These atoms are surrounded by shells or clouds of **electrons that cause them to push away from one another**. Because most electron shells are not full and as atoms come in close contact with one another, electrons actually go back and forth between atoms, and quite quickly may I add, filling each atom's empty spaces (atoms are excellent sharers!).

The diagram illustrates the evolution of atomic models through five stages, each featuring a portrait of the scientist, their name, the year, the model name, and a brief description of the model's structure.

- "Billiard Ball" Model (1803):** Dalton proposes the indivisible unit of an element is the atom. (Illustrated as a solid green sphere)
- "Plum Pudding" Model (1904):** Thomson discovers electrons, believed to reside within a sphere of uniform positive charge (the plum pudding model). (Illustrated as a red sphere with small black dots)
- Rutherford Model (1911):** Rutherford demonstrates the existence of a positively charged nucleus that contains nearly all the mass of an atom. (Illustrated as a red sphere with a small black dot in the center)
- Bohr Model (1913):** Bohr proposes fixed circular orbits around the nucleus for electrons. (Illustrated as a red nucleus with three elliptical orbits and a small yellow dot representing an electron)
- "Electron Cloud" Model (1926):** In the current model of the atom, electrons occupy regions of space (orbitals) around the nucleus determined by their energies. (Illustrated as a red nucleus surrounded by a grey, cloud-like region)

At the atomic level, the idea of "touch" is an illusion. Atoms are mostly empty space, with a dense nucleus and a cloud of electrons. When you try to touch something, electrons in your atoms and the object's atoms repel each other, due to the electromagnetic force. Since both are negatively charged they never actually come into contact. What you perceive as touch, is the electromagnetic repulsion between your atoms and the object's atoms. In reality, "touching" is just the interaction of invisible forces, not particles meeting.

"Do you really believe the moon is not there when you are not looking at it?" - *Albert Einstein*

This constant exchange between those busy little electrons is within us all and can even be measured well outside the barrier of our skin. In fact, the **human electron energy field** expands out about **3-6 feet outside of the physical body!**

Everything in the Universe is energy.

That wall you punched and your now bruised fist ... **both are energy.** But what is fascinating is **they never even touched one another.** The atoms repelled (as we are learning "matter" is illusory) reaction and repulsion occurred.

The same occurs when you believe you are sitting on a chair. You are **actually levitating** on an atomic level! Negatively charges **electrons repel** each other.

Periodic Table

Remember the periodic table of elements from chemistry. It defines and organizes chemical elements. An element is a compound of pure atoms of the same type. There is an element for every know atom.

The definition of an **element** is that "*an element can neither be created nor destroyed.*" So where did they come from? But, God! It follows the **First Law of Thermodynamics**, that "*energy can neither be created nor destroyed.*"

Elements are **basic substances** that are made of atoms of only one kind. According to Dalton's Atomic Theory, atoms of **one element cannot be changed into atoms of a different element** by chemical reactions and atoms can neither be created nor destroyed in chemical reactions. How, if this is the case, were individual atoms created? Only God knows.

Many scientists worked on the problem of organizing the elements, but Dmitri Mendeleev published his first version of the periodic table in 1869, and is most often credited as its inventor. Since then, the periodic table has evolved to reflect over 150 years of scientific development and understanding in chemistry and physics. Today,

with **118 known elements**, it is widely regarded as one of the most significant achievements in science.

Elements in the same **row** are in the same period. This means they have similar physical properties, such as how well they bend or conduct electricity.

Elements in the same **column** are in the same group. This means they react with other elements in similar ways.

Atomic Number is the number of protons in the nucleus (which is the same as the number of electrons in the atom).

Also, reflected is the element's **Atomic Mass**. It is approximately equivalent to the number of protons and neutrons in the atom - the quantity of matter contained in an atom of an element.

Consider elements like: **Hydrogen, Helium, Oxygen ... Silver, Gold, and Lead**. Why is an Oxygen atom light and airy, while a Lead atom is dense and heavy? They are made from the same three components – **Protons, Neutrons, and Electrons**. Oh, there are more subatomic particles as you go up the Periodic Table. But, it is just more of the same three.

What is a Proton, what is a Neutron, what is an Electron? Energy, **just energy!** It is not like there is a heavy ball bearing in the center of a Lead atom.

What is Energy?

The short answer is *everything*. Nuclear Energy is energy stored in the nucleus of an atom—the energy that makes up and holds the nucleus together. Energy, by the way, would be one more aspect of our universe that we know is, but not what it is exactly.

Everything is essentially energy. There is nothing hard inside an atom – just various manifestations of energy. Why, then, are rocks hard, and water soft? It is the same electrons, protons and neutrons.

“It followed from the special theory of relativity ($E=MC^2$) that mass and energy are both but **different manifestations of the same thing** — a somewhat unfamiliar conception for the average mind.” – *Albert Einstein*

String Theory

The second strange quantum property is known as **entanglement**, a phenomenon in which two particles can be so strongly correlated that they behave as a single entity.

Measuring a property of one of the particles automatically forces the other to have a complementary property, even if the two particles reside galaxies apart. When particles are entangled, they can no longer be thought of as having separate properties.

Quantum Entanglement or String theory does not have a satisfactory definition in all circumstances and describes an enormous landscape of possible universes or dimensions ... Quantum Computing, Quantum Teleportation, etc. String theory replaces particles with strings vibrating in as many as 11 dimensions. We do not understand why an **atom can be tweaked and one across the earth or universe responds** – instantaneously.

Quantum entanglement, or at least the principles that describe the phenomenon, was first proposed by Einstein and his colleagues Boris Podolsky and Nathan Rosen in a 1935 paper in the journal *Physical Review* titled "*Can Quantum-Mechanical Description of Physical Reality Be Considered Complete.*" In it, Einstein, Podolsky, and Rosen discussed that an **especially strong correlation of quantum states between particles can lead to them having a single unified quantum state.**

Famously, Einstein described quantum entanglement as "**spooky action at a distance**," but he actually described it as more than just a *weird quirk of ghostly particles with instantaneous knowledge of each other*. Einstein himself never gave up on finding an alternative to quantum theory until his death in 1955.

Einstein actually saw **quantum entanglement** as a **mathematical paradox**, an inherent **contradiction in mathematical logic**. In simple terms, quantum entanglement is when two particles are produced or interact in such a way that the **key properties of those particles cannot be described independently of each other.**

For example, if two photons are generated and are entangled, one particle may have a clockwise spin on one axis so that the other will necessarily have a counterclockwise spin on that same axis.

In and of itself, this is not that radical. But because particles in quantum mechanics can also be described as **wave functions**, the act of measuring the spin of a particle is said to "*collapse*" its wave function to produce that measurable property.

This appears to happen **instantaneously and regardless of their distance** from each other, which originally led to the paradoxical conclusion that the information about the measured particle's spin is somehow being transmitted to its entangled partner faster than even the speed of light. Even weirder, this information **might even travel back and forth through time.**

Understanding and harnessing entanglement is key to creating many cutting-edge technologies. These include **quantum computers**, which can solve certain problems far faster than ordinary computers, and quantum communication devices, which would

allow us to communicate with one another without the slightest possibility of an eavesdropper listening in.

Quantum Quirk

The laws of physics state *one object can't be in two places at the same time*. Called, "**spatial superposition**," a breakthrough study from Stanford University researchers used a quantum quirk that enabled a "cloud" of atoms to be in **two places at once**. The research highlighted the possibility of "recreating" tangible objects over vast distances using teleportation.

So, quantum mechanics is about the potentiality of something to be found here or there, not about where something is all the time. Until there is a measurement, the notion of where something is does not make sense!

Exploiting the quirks of quantum physics theoretically makes **teleportation** possible. Quantum states existing in two places at a single time is called an "*entanglement*." This quirk could make it possible to send data, a tangible object or a person across miles without a physical link.

Duality

Quantum mechanics is famous for its **wave-particle duality**, where an electron, for example, will behave as a wave or a particle depending on which kind of experiment you perform. It's the choice of measurement — of a wave kind or a particle kind — that seems to determine the result. So, is the electron a wave spread out through space, or is it a particle holding just a single position at any one time? Beats me! The spookiness of quantum cannot be made to go away — **every interpretation is forced to accept something about reality that seems really, really weird**.

Atom as a Wave: The *superposition* principle holds that an undisturbed atomic particle can be described as a **wave**, with some probability of being in two places at once. For instance, an undisturbed **atom** traveling through a region with **two slits**, passes through not one or the other of the slits but **both**.

Thermodynamics is the study of the relations between heat, work, temperature, and energy. The laws of thermodynamics describe how the energy in a system changes and whether the system can perform useful work on its surroundings. While atoms (elements) adhere to the first law of thermodynamics, they seem to **defy the second law of thermodynamics** and act like the third. 1st Law of Thermodynamics - Energy cannot be created or destroyed. 2nd Law of Thermodynamics - The **entropy** of the universe increases. 3rd Law of Thermodynamics - The entropy of a system at absolute

zero is zero. Thus, atoms are **not “winding down”** like the rest of the physical universe.

Retrocausality

means that, when an experimenter chooses the measurement setting with which to measure a particle, that decision can influence the properties of that particle (or another one) in the past, even before the experimenter made their choice. In other words, **a decision made in the present can influence something in the past.**

In 2019, scientists showed that **time travel** is theoretically possible by sending a simulated particle back in time via a quantum computer. Since quantum mechanics is about probability (not certainty), success was no guarantee. However, in a two-qubit quantum computer, the algorithm managed a time jump an impressive 85 percent of the time. It's why Albert Einstein called them “spooky.”

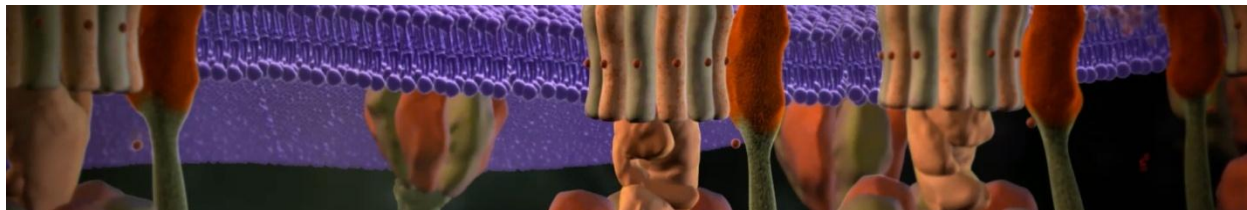
Christian apologist **C.S. Lewis** (1898–1963), who read and wrote science fiction, pointed out that the present and future can change the past. If we assume that God exists and God is not in time, an action taken now could influence an event in the past.

Atoms are indeed bazaar. They defy the Second Law of Thermodynamics, they can be in more than one place at the same time, they seem to communicate with one another, they are are only energy but become matter, we have no idea what it is that holds them together, they act like a wave and a particle, they are 99%+ space, they can neither be created or destroyed, and one and on.

Atoms make up everything physical, even the cells is our body. These atoms can become something else; they become **living cells.**

Next, we take a look at what was once called the “**Simple Cell.**”

VI. Life: The Living Cell



Now let's jump to life – living organisms – to the cells that make up life. Here is where inert matter, atoms, becomes living cells.

When I was in grade school, I still remember teachers talking about the “*simple cell*.” Now I imagine God the Father sitting on His throne in heaven, slapping Jesus' knee saying, “*they think the cell is simple, just wait until they can see what is going on inside the cell;*” and then, He and Jesus laughing hysterically together.

There are over **30 Trillion cells** in the human body. Some estimate as high as 60 Trillions, and even over 100 trillion. Regardless there are a lot of them.

Suzanne Bell, an analytical chemist at West Virginia University, estimates that a 150-pound human body contains about **6.5 octillion** (that's 6,500,000,000,000,000,000,000,000) **atoms**. The four most abundant elements in the human body – **hydrogen, oxygen, carbon and nitrogen** – account for more than **99%** of the atoms inside you.

Humans are multi-cellular, complex organisms. The cells inside our bodies are “specialized.” This means that each type of cell performs a unique and special function. For this reason, each of the **200 different types of cells** in the body has a different structure, size, shape, and function.

Plus, the number of **bacterial cells** inside a human body is around **38 trillion**, in addition to your body's cells.

Cells are constantly dying, and new ones are being made simultaneously. Your body replaces around **330 billion cells per day**. At that rate, your body is making *over 3.8 million new cells every second*.

About 25 million new cells are being produced each second. That's a little less than the population of Canada - every second! Humans shed about 600,000 particles of skin every hour - about 1.5 pounds a year. By 70 years of age, an average person will have lost 105 pounds of skin.

The average body makes about **2 to 3 million red blood cells every second**, or about 173 to 259 billion red blood cells per day. **Skin cells**, on the other hand, are so sparse that they'd give you a paltry estimate of **35 billion cells**. People shed **500 million skin cells every day**.

You see now that we can see inside the cell, we have learned that it is anything but simple. In fact, it is **complex** beyond our wildest imaginations. It is **nano-tech technology** on steroids. Nano-tech scientist can only dream of such complex molecular machinery.

There are **molecular-level machines** inside every cell of our body, doing all manner of complex tasks. They even look like machines – some with gears, drive-shafts, etc. For example, there is a machine that reads the DNA of the cell and tells the other machines what to do.

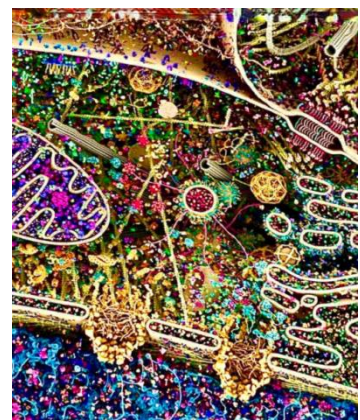
When the cell is preparing to replicate, another machine takes the DNA and creates a duplicate copy. The original DNA and the copy come out all tangled up. Another machine takes the strands of DNA, checks them, and restores their spiral helix. Then the cell goes bloop – like the Yaris commercial – and divides. Who knew?

Remember that your body is made up of untold number of cells – blood cells, bone cells, hair cells, skin cells, brain cells, neuron cells, muscle cells for each type of muscle, and on and on. The **DNA tells each cell how to behave** and what to do.

In fact the DNA is staggeringly complex coding. The DNA in each and every cell of your body contains the equivalent information as **1,000 sets of Britannica Encyclopedias**. Remember those? They are huge. This is information, intelligence; intelligence requires an intelligent creator. It does not come about through random mutation or by chance.

DNA was sure to be the **coup de grace** for evolutionist and old earth theorists against creationists. It turned out to be their greatest nightmare. In fact, it has driven the final nails in the coffin of evolution and old earth theories.

When **James Watson** and **Francis Crick** elucidated the structure of the DNA molecule in 1953, they made a startling discovery. The structure of **DNA allows it to store information** in the form of a four-character digital code. Strings of precisely sequenced chemicals called nucleotide bases store and transmit the assembly instructions—the information—for building the crucial protein molecules and “*machines*” that cells need to survive.



“Among all of the marvels one could point to in God’s world, one of the most effective arguments in favor of biblical creation, and against the story of evolution, is the fact of the existence of the genetic code imbedded in the make-up of every living thing on earth (DNA).” - AiG

DNA molecule has the same property of “*sequence specificity*” that characterizes written text and computer code. **Dawkins** himself has acknowledged, “*The machine code of the genes is uncannily computer-like.*” And **Bill Gates** has noted, “*DNA is like a computer program, but far, far more advanced than any software we’ve ever created.*”

To the evolutionist’s chagrin, **DNA is made of protein**. Protein is **made by**, and requires, **life**. It cannot be made in the lab apart from life. Life requires protein, protein requires life. **Which came first?** The evolutionist has no answer.

The correct answer has to be – **both**. A living cell requires DNA, DNA requires a living cell. In fact, a single cell cannot live apart from a living host. It points, unquestionably, to a creator; a first cause causative agent – God.

Acts 17:26 And hath **made of one blood all nations** of men for to dwell on all the face of the earth, and hath determined the times before appointed, and the bounds of their habitation;

“At the moment when the **DNA system became understood**, the **debate** between Evolutionists and Creationists should **have come to a screeching halt.**” -- *I.L.Cohen Researcher and mathematician*

Even a one-cell life form – a paramecium or an ameba – have this amazing molecular machinery and DNA. The cell is anything but “*simple.*”

Simple Cell

Cells, once called “simple,” have specialized protein channels used in transporting many key biomolecules and ions. Evolutionary theory appeals to a gradual, step-by-step process of small mutations sifted by **natural selection**, what is commonly referred to as: *survival of the fittest*.

But a gradual step-by-step evolutionary process over many generations seems to have **no chance of building such wonders**, since there apparently can’t be many generations of a cell, or even one generation, until these channels are up and running. No channels, no cellular life. It is all or nothing.

“If it could be demonstrated that any complex organ existed, which **could not possibly have been formed by numerous, successive, slight modifications**, my theory would absolutely break down.” - *Charles Darwin, The Origin of Species*

It seems, then, from all the biochemical knowledge we now have, that the cell membrane’s many crucial requirements had to be foreseen, and delivered on time, for the earliest cells to survive and reproduce.

“The role of the infinitely small in nature is infinitely great.” – *Louis Pasteur*

Irreducible (*More about supposed ‘Simple Cells’*)

The complicated biological structures in a cell exhibit **irreducible complexity**. In other words, they are all-or-nothing: either everything is there and it works, or something is missing and it doesn't work. As we saw before, such a system cannot be constructed in a gradual manner-it simply won't work until all the components are present, and **Darwinism has no mechanism for adding all the components at once.**

Darwin's mechanism is one of gradual mutations leading to improved fitness and survival. A less-than-complete system of this nature simply will not function, and it certainly won't help the organism to survive. “*Any precursor to an irreducibly complex system that is missing a part is by definition nonfunctional.*” (**Michael Behe**) Indeed, having a half-formed and hence non-functional system would actually hinder survival and would be selected against.

“Even if a system is **irreducibly complex** (and thus cannot have been produced directly), however, one cannot definitively rule out the possibility of an indirect, circuitous route. As the complexity of an interacting system increases, though, **the likelihood of such an indirect route drops precipitously.** And as the number of unexplained, irreducibly complex biological systems increases, our confidence that Darwin's criterion of failure has been met skyrockets toward the maximum that science allows.”
- *Michael Behe, Darwin's Black Box*

"In the natural world, there are many pattern-assembly systems for which there is no simple explanation. There are useful scientific explanations for these complex systems, but the final patterns that they produce are so heterogeneous that they cannot effectively be reduced to smaller or less intricate predecessor components. As I will argue ... these patterns are, in a fundamental sense, **irreducibly complex...**" - *Michael J. Katz, Templets, 1986*

Amoeba (*More about supposed ‘Simple Cells’*)

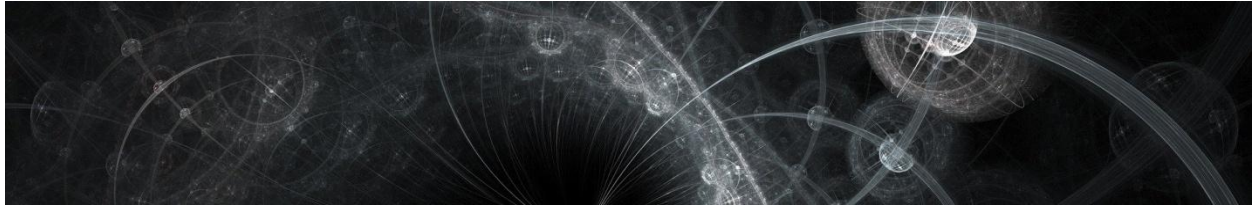
The amoeba was considered an example of a “simple cell.” In fact, it has been considered the possible first life – evidence of spontaneous generation of life. It looked so simple on the surface. Yet, now with modern technology we learn that amoeba is not so simple after all. It is **filled with complex molecular machines**, each of which is required for the amoeba to live and be an amoeba. In fact, the DNA in an amoeba contains the information equivalent to 1,000 set of Britannica encyclopedias.

Chicken or the Egg

DNA requires proteins for its production, but proteins rely on DNA for their production. This is the chicken-egg dilemma on steroids. The **DNA** in just one cell contains enough information about our bodies to fill **500,000 close-typed pages!** The information stored in our DNA is only rearranged or decreased as it is passed from parent to child. So where did the information in all living things come from in the first place? Current scientific observations show that **information can only come from a source of intelligence** – God.

Acts 17:26 And [God] hath made of one blood all nations of men for to dwell on all the face of the earth ...

Conclusion



We live in a weird world. That which we take for granted often leaves us believing that we know that which we do not. Many a scientist has come face to face with God by accident trying to understand the Quantum world – or even gravity, light, space and time.

“If you study *science* deep enough and long enough, it will *force you to believe in God.*” - Lord William Kelvin

The more you understand the fundamental building block of our universe, the more you realize the impossibility of our world apart from God.

Hebrews 1:3 ... **upholding all things by the word of his power** ...

Colossians 1:16 For **by him were all things created**, that are in heaven, and that are in earth, **visible and invisible** ...17 And he is before all things, and **by him all things consist** (in him all things hold together).

“The first gulp from the glass of natural sciences will turn you into an atheist, but *at the bottom of the glass God is waiting for you.*” - Werner Heisenberg, who was awarded the 1932 Nobel Prize in Physics

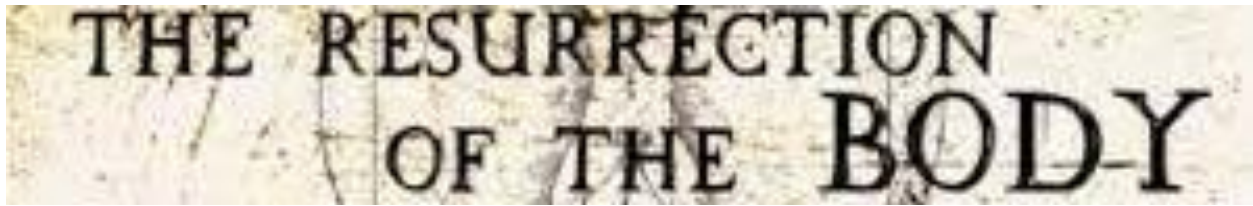
“A little science estranges a man from God. *A lot of science brings him back.*” - Sir Francis Bacon

“The more I study science, the more I believe in God ... The most beautiful thing we can experience is the Mysterious” – Albert Einstein

Psalm 95:6 O come, let us worship and bow down: let us kneel before the Lord our **maker**

Romans 1:20 For the **invisible things of him from the creation** of the world are clearly seen, being understood by the things that are made, even his eternal power and Godhead; so that they are **without excuse**:

Resurrected Body



Philippians 3:21 Who (Jesus) **shall change our vile body, that it may be fashioned like unto his glorious body ...**

Related to *time, space, and matter*, is the Biblical notion of a future “*resurrected,*” “*glorified,*” “*transfigured,*” “*spiritual,*” “*immortal,*” “*eternal*” body. It goes by many names, but it all the same. It will be our future permanent bodies forever.

At the **rapture of the saints**, we all receive our “*resurrected,*” “*glorified*” bodies. Our new spiritual bodies rising from the grave will be as real bodies (like that of Jesus after He was raised from the dead) but will no longer be under bondage to physical forces of this world as at the present time, but only to spiritual forces; at least, so it would seem from scripture.

1 Corinthians 15:51 Behold, I shew you a mystery; We shall not all sleep, but **we shall all be changed**, 52 In a moment, *in the twinkling of an eye, at the last trump*: for the trumpet shall sound, and the **dead shall be raised incorruptible, and we shall be changed.**

“I think that Resurrection is so much profounder an idea than mere immortality. I am sure we don’t just ‘go on.’ We really die and are really built up again.” – *CS Lewis*

What can we learn from Scripture about our future **resurrected bodies**? It would seem that our transfigured bodies will not be subject to *time, space, or matter*. Scripture gives very little insight to this wonderful change. We do know, however, that our spiritual bodies will be “*fashioned like unto his glorious body.*”

Philippians 3:20 For our conversation is in heaven; from whence also we look for the Saviour, the Lord Jesus Christ: 21 Who **shall change our vile body, that it may be fashioned like unto his glorious body**, according to the working whereby he is able even to subdue all things unto himself.

1 John 3:2 Beloved, now are we the sons of God, and it doth not yet appear what we shall be: but we know that, when he shall appear, **we shall be like him**; for we shall see him as he is.

Jesus Resurrected Body

Looking at Jesus after the resurrection may give us some insight to what our resurrected, glorified, bodies will be like. In the accounts of the resurrection we are shown that Jesus' resurrection was a real; it was a physical resurrection. He invited the disciples to touch his wounds and he asks them for food to eat. Therefore this is not a ghost, or anything like that.

Luke 24:39 Behold my hands and my feet, that it is I myself: **handle me, and see; for a spirit hath not flesh and bones**, as ye see me have.

John 20:27 Then saith he to Thomas, **Reach hither thy finger**, and behold my hands; and reach hither thy hand, and thrust it into my side: and be not faithless, but believing.

But, if this is a real physical body why does it not behave like a physical body in all cases? Why do Mary Magdalene and the disciples on the road to Emmaus not recognize him? Furthermore, why does he simply appear in rooms where the doors are locked?

John 20:19 Then the same day at evening, being the first day of the week, when the **doors were shut** where the disciples were assembled for fear of the Jews, **came Jesus and stood in the midst**, and saith unto them, Peace be unto you. ... 26 And after eight days again his disciples were within, and Thomas with them: **then came Jesus, the doors being shut**, and stood in the midst, and said, Peace be unto you.

It seems that He could appear and disappear in and through this physical world as if he were stepping through a curtain.

Luke 24: 30 And it came to pass, as he sat at meat with them, he took bread, and blessed it, and brake, and gave to them. 31 And their eyes were opened, and they knew him; and **he vanished out of their sight**.

He could theoretically pass through doors and walls because they were no more substantial to him than a veil of water vapor. It seems that he passed through His grave clothes. *Note*, however, that nowhere does scripture say the He 'passed *through walls or doors*.' Rather, He appeared in their midst.

"But the function of the locked doors in John's narrative, both here [v.19] and in v.26, is to stress the miraculous nature of Jesus' appearance amongst his followers. **As his resurrection body passed through the grave-clothes (v.6-8), so it passed through the locked doors and simply 'materialized.'**" - DA Carson, *The Gospel According to John*

It would seem that Jesus post-resurrection body was not constrained by *time, space, or matter*. Although, note that the passage does not say that Jesus ‘walked through walls,’ rather He appeared in their midst.

“No [bible] text says that Jesus passed through walls or anything like that.” - *Wayne Grudem*

So, was He traveling through matter, or through dimensions? It is unclear. **Walter Martin** has an interesting perspective; an interesting twist.

“Jesus could have merely appeared in the room, for when a body moves from one dimension to two dimensions it does not go through anything, it merely moves there instantly; when a body moves from two dimensions to three dimensions, it does not go through anything, it merely moves there instantly. Therefore **when a body goes from three dimensions to four, it would not move through anything, it would merely move there instantly.**” - *Walter Martin*

This is a rather strange verse about how Jesus could appear. It almost seems to imply that He could change His appearance.

Mark 16:11 And they, when they had heard that he was alive, and had been seen of her, believed not. 12 **After that he appeared in another form unto two of them**, as they walked, and went into the country.

He would not be constrained by our physical world. For example, He did not need to eat, although has was certainly able to eat.

Matthew 26: 28 For this is my blood of the new testament, which is shed for many for the remission of sins. 29 But I say unto you, **I will not drink henceforth** of this fruit of the vine, until that day when I drink it new with you in my Father's kingdom.

We see other mysterious ways Jesus moved even prior to His resurrection. How did He do this?

Luke 4:29 And rose up, and thrust him out of the city, and led him unto the brow of the hill whereon their city was built, that they might cast him down headlong. 30 **But he passing through the midst** of them went his way

John 8:59 Then took they up stones to cast at him: but Jesus hid himself, and went out of the temple, **going through the midst of them**, and so passed by.

Even Phillip moved mysteriously in the spirit, as well. It would seem that God can move our physical bodies through *time, space and matter* – or, maybe, through dimensions – if He so desires to accomplish His purposes.

Acts 8:38 And he commanded the chariot to stand still: and they went down both into the water, both Philip and the eunuch; and he baptized him. 39 And when they were come up out of the water, **the Spirit of the Lord caught away Philip**, that the eunuch saw him no more: and he went on his way rejoicing. 40 But **Philip was found at Azotus**: and passing through he preached in all the cities, till he came to Caesarea.

Our Resurrected Bodies

God will not restore a prior body to the dead but will present them with a new “*glorious*” body, fit for the eternal environment and service of heaven. Paul could only write of it by analogy, comparing the difference between the old and the new bodies to the difference between a seed and a plant, to different kinds of living things, and to different kinds of celestial bodies.

“*So also is the resurrection of the dead.*” It is sown in corruption, dishonor, weakness, as a natural body, but it is **raised in incorruption, glory, and power, as a spiritual body** (1 Corinthians 15:37-44).

Job 19:25 For I know that my redeemer liveth, and that he shall stand at the latter day upon the earth: 26 And **though after my skin worms destroy this body, yet in my flesh shall I see God**: 27 Whom I shall see for myself, and mine eyes shall behold, and not another; though my reins be consumed within me.

Romans 8:22 For we know that the whole creation groaneth and travaileth in pain together until now. 23 And not only they, but ourselves also, which have the firstfruits of the Spirit, even we ourselves groan within ourselves, waiting for the adoption, to wit, the **redemption of our body**.

Philippians 3:20 For our conversation is in heaven; from whence also we look for the Saviour, the Lord Jesus Christ: 21 Who **shall change our vile body, that it may be fashioned like unto his glorious body**, according to the working whereby he is able even to subdue all things unto himself.

1 Corinthians 15:50 Now this I say, brethren, that **flesh and blood cannot inherit the kingdom of God**; neither doth corruption inherit incorruption. 51 Behold, I shew you a mystery; We shall not all sleep, but **we shall all be changed**, 52 In a moment, *in the twinkling of an eye, at the last trump*: for the trumpet shall sound, and the **dead shall be raised incorruptible**,

and we shall be changed. 53 For this corruptible must put on incorruption, and this mortal must put on immortality.

1 John 3:2 Beloved, now are we the sons of God, and it doth not yet appear what we shall be: but we know that, when he shall appear, **we shall be like him**; for we shall see him as he is.

Matthew 22:30 For **in the resurrection they neither marry**, nor are given in marriage, but are **as the angels** of God in heaven.

1 Corinthians 15: 20 But now is Christ risen from the dead, and become the firstfruits of them that slept. ... 23 But every man in his own order: Christ the firstfruits; **afterward they that are Christ's at his coming**. ... 35 But some man will say, How are the dead raised up? and **with what body do they come?** ... 42 So also is the resurrection of the dead. It is sown in corruption; it is **raised in incorruption**: 43 It is sown in dishonour; it is raised in glory: it is sown in weakness; it is **raised in power**: 44 It is sown a natural body; it is **raised a spiritual body**. There is a natural body, and there is a spiritual body. 45 And so it is written, The first man Adam was made a living soul; the last Adam was made a quickening spirit. 46 Howbeit that was not first which is spiritual, but that which is natural; and **afterward that which is spiritual**. 47 The first man is of the earth, earthy; the second man is the Lord from heaven. 48 As is the earthy, such are they also that are earthy: and as is the heavenly, such are they also that are heavenly. 49 And as we have borne the image of the earthy, *we shall also bear the image of the heavenly*.

1 Thessalonians 4:15 For this we say unto you by the word of the Lord, that we which are alive and remain unto the coming of the Lord shall not prevent them which are asleep. 16 For the Lord himself shall descend from heaven with a shout, with the voice of the archangel, and with the trump of God: and the **dead in Christ shall rise first**: 17 **Then we which are alive and remain shall be caught up** together with them in the clouds, to meet the Lord in the air: and so shall we ever be with the Lord.

What exactly our glorified bodies will be like and how they will differ from our present bodies, is not completely clear in the Bible. But, God “*shall change our vile body, that it may be fashioned like unto his glorious body.*” It will no doubt be different, far better, and would appear to not be constrained by time, space and matter.

Many verses seem to teach that our “*resurrected*” bodies will be the same bodies that we have now, except transformed into an “*immortal*” state – not constrained by *time, space and matter*. If it is that God does not create new bodies for us from scratch, but rather resurrects the body that dies, it seems clear that we do not receive our resurrection bodies immediately at death. For our bodies very clearly and evidently remain here on earth and are laid to rest.

Question of Timing

We know from God's Word that when we die in Christ, we are ushered directly into the presence of God.

2 Corinthians 5:6 Therefore we are always confident, knowing that, whilst we are at home in the body, we are absent from the Lord: 7 (For we walk by faith, not by sight:) 8 We are confident, I say, and willing rather to be **absent from the body, and to be present with the Lord.**

Just like Jesus told the repentant thief on the cross beside Jesus:

Luke 23:43 And Jesus said unto him, Verily I say unto thee, **Today shalt thou be with me in paradise.**

As Christians, when we die, our spirits go to be in the presence of the Lord. We won't have a new, "*spiritual*" body just yet, not until the "*last day*." But we'll still be in Heaven with the Lord. However, when Jesus returns in triumph, and we're given our glorified, "*resurrection*" bodies, things get even better

Some argue that we receive our "*glorified*" bodies at death. But, Scripture makes it clear that that is not the case. The fact that the **resurrection will happen at the return of Christ** has important implications: It means that glorification will be a corporate reality and not an individual experience that happens to each believer separately at death.

All Christians will be raised into glory together. While we all lived at different periods of time, we all came to faith at different times, and we all will have died at different times (except for those who lived until Christ returns), it is an amazing thing that God has planned things such that our glorification will occur at the same time.

Daniel 12:13 But go thou thy way **till the end** be: **for thou shalt rest, and stand in thy lot at the end of the days.** (at the end of the days you will rise to receive your allotted inheritance. – NIV)

John 6:39 And this is the Father's will which hath sent me, that of all which he hath given me I should lose nothing, but should **raise it up again at the last day**. 40 And this is the will of him that sent me, that every one which seeth the Son, and believeth on him, may have everlasting life: and **I will raise him up at the last day.**

1 Thessalonians 4:16 For the Lord himself shall descend from heaven with a shout, with the voice of the archangel, and with the trump of God: and the **dead in Christ shall rise first**: 17 Then **we which are alive and**

remain shall be caught up together with them in the clouds, to meet the Lord in the air: and **so shall we ever be with the Lord**.

1 John 3:2 Beloved, now are we the sons of God, and it doth not yet appear what we shall be: but we know that, **when he shall appear, we shall be like him**; for we shall see him as he is.

2 Corinthians 5:1 For we know that if our earthly house of this tabernacle were dissolved, we have a building of God, an house not made with hands, eternal in the heavens. 2 For in this we groan, earnestly **desiring to be clothed upon with our house which is from heaven**: 3 If so be that being clothed **we shall not be found naked**. 4 For we that are in this tabernacle do groan, being burdened: not for that we would be unclothed, but clothed upon, that mortality might be swallowed up of life.

Some argue for an intermediate body upon death. I cannot find this in scripture. But, it seems an idle argument because we clearly get our final "*glorified*" body at Christ's return.

The Scripture says we should long for our new "*spiritual*" bodies; that's the ideal, the finished product, and the ultimate perfection. It will be our "*eternal*" body not constrained by time, space, or matter.

Colossians 3:4 **When Christ**, who is our life, **shall appear**, then shall ye also **appear with him in glory**.

About the Author



To be clear, I am decidedly a ‘*nobody from nowhere.*’ In fact, I ‘*do not know much of anything, but I know the One who knows everything.*’ I have learned that He delights in sharing Truth to those willing to seek it. So, I have taken the time to study God’s word on this and other subjects, in rather great detail. I try to be Berean.

I have been astounded that so few know how little we really know about the fundamental building blocks of our universe. Most simply assume somebody knows. But, they do not. There are things that we know *that they are*, but we do not know *what they are*; we know *that it is*, we do not know *what it is*.

You see, I am a bit of a nerd. I still read scientific journals and articles, both from Christian and secular scientists. One of my undergraduate degrees is in physics. In fact, I went to college on a physics scholarship. I had the distinct privilege of sitting under the top-two physics professors in the Country for two years. I have always loved science. As a result, I have enough of a science background to digest most of what I read.

The body of evidence is truly enormous. It saddens me that so few are aware of it. It saddens me even more that our schools simply do not share it with our children. There is a clear bias in academia that skews education toward a secular, humanistic world view.

Much of what is documented herein would simply not be allowed to be shared in our public schools. Thusly, our children are not equipped to make an informed decision about what they believe – a theistic versus a humanistic belief regarding origins.

I believe Genesis, just as God wrote it. I find that there is no reason to take it any other way. In fact, I am confident that it is foundational to our faith to accept it as God intended. Science fit with and supports the Genesis account perfectly.

This document is the collection of 40 years of teaching on various aspects of this subject. One of my undergraduate degrees is in Physics. Although I feel like I have now forgotten more than I ever knew, I am still capable of digesting scientific articles and presenting the material in layman’s terms.



A few years back, I felt like God was encouraging me to combine all my disparate teachings on this subject into one document. To my surprise, it fit together like a hand in glove.

It fits together nicely with two other pieces called, 'The Eternality of God' and 'Evidence of a Young Earth, Creation, and Global Flood.' In this shallow dive into Quantum Physics from a Biblical perspective, we should be left with a sense of awe of our Creator. There are numerous aspects of the cosmos that we take for granted; yet have little understanding beyond that they merely are. There are things we think or assume that someone knows! But, surprisingly to most folks, we do not.

Moreover, I pray that you will do as I have by praying that God will lead you to "*the truth, the whole truth, and nothing but the truth.*" Don't take my word for it, be Berean.