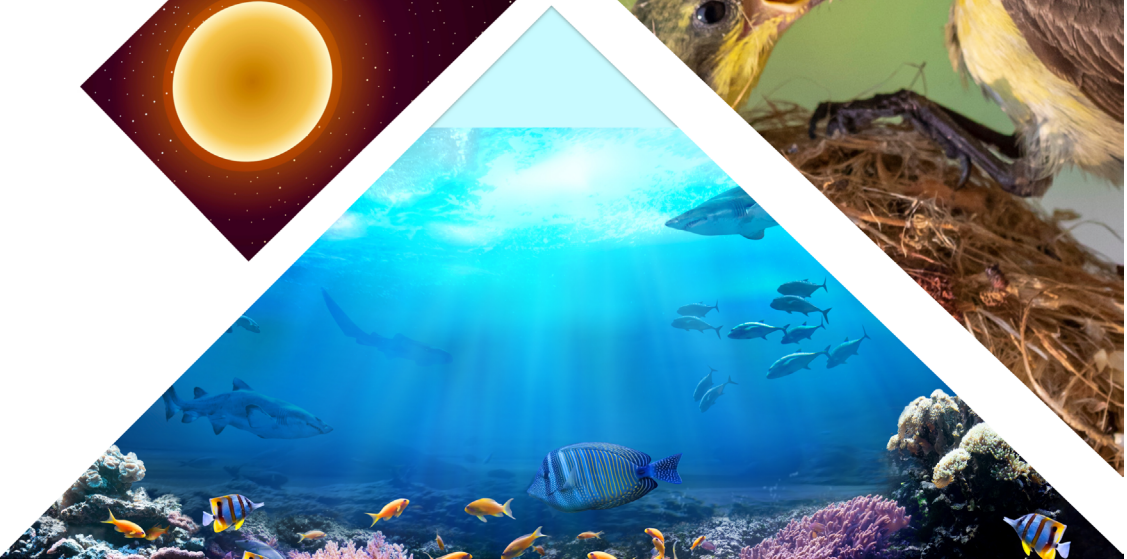
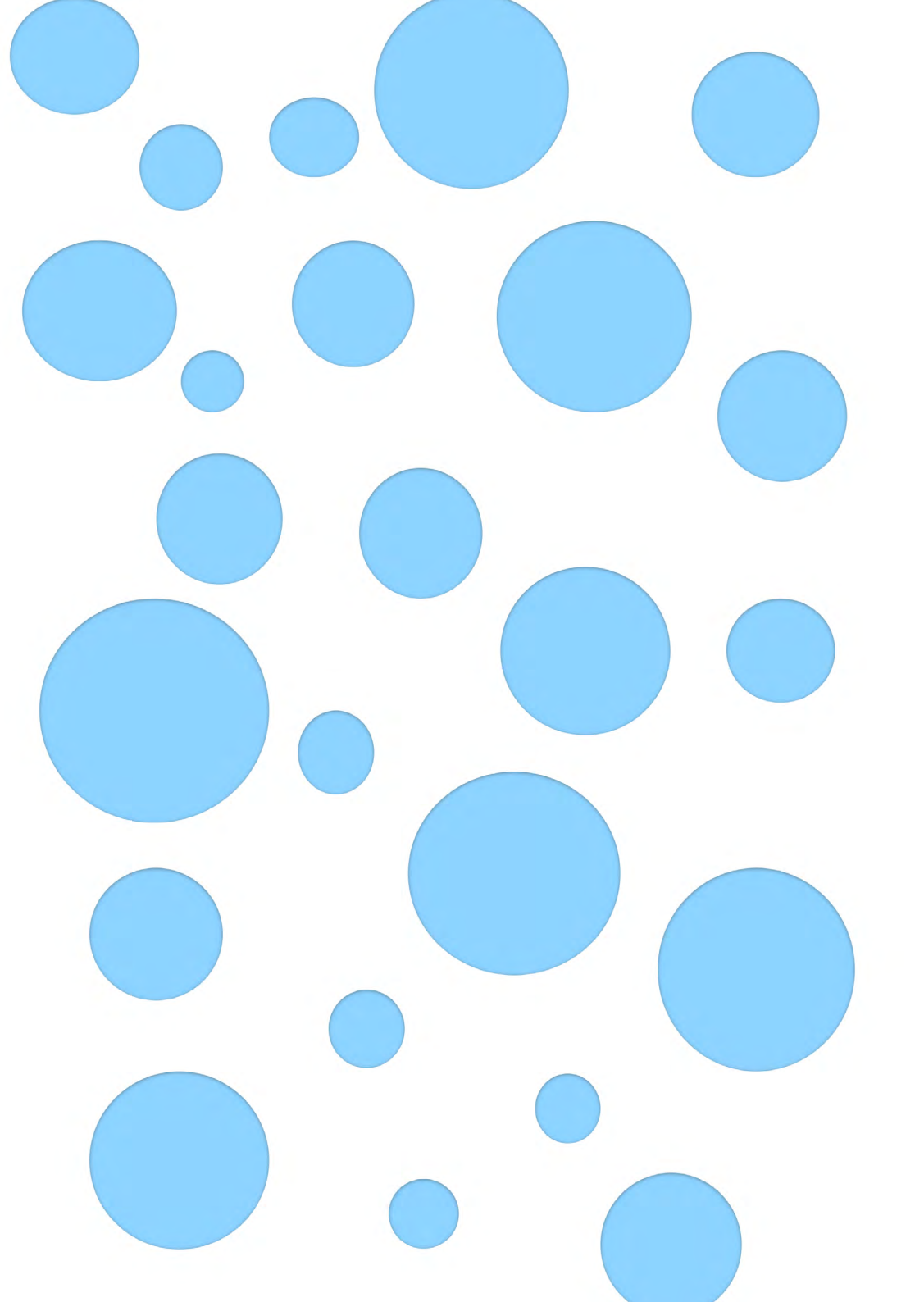


The Qur'an and Science

*An Analysis of the Revelation in the light of
Modern Knowledge*

Compiled By
Dr. Abood Hamed Al Sawafi





Note on the Forth Edition

In this forth edition, we have incorporated further clarifications and insights referenced earlier, ensuring that the perspective remains consistent with the understanding that the Qur'an is neither constrained by nor in competition with scientific inquiry. These refinements serve to highlight that all true scientific knowledge ultimately points to God's ceaseless and purposeful involvement in every facet of creation, reinforcing our conviction in the harmonious coexistence of faith and reason. Word of thanks to Prof Necati for his guidance in the review of the revised edition and to Dr Yousuf Al Auqi for his rigorous review.

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4th. Edition
Ramadhan 1447 H / March 2026

Published by



Islamic Information Center
Sultan Qaboos Grand Mosque
Sultanate of Oman
Website: www.iicomman.com
Email: info@iicomman.com

The enduring marvel of the Qur'an

The Qur'an, revered by Muslims as the literal word of God (Allah), is not intended to serve as a scientific textbook but rather as a comprehensive guide for all aspects of human life, primarily offering spiritual and moral direction. Nevertheless, embedded within its verses are numerous signs and symbols that invite deep reflection and contemplation. In the Qur'an, God (Allah) promises to reveal His signs to humanity, so that people may recognize its divine origin without doubt.

Throughout history, the Qur'an has been associated with various types of miracles, each reflecting the context of the era in which they were revealed, and their resonance continues to this day. These miracles can be categorized as follows:

1. **Linguistic Miracles:** The Qur'an's unparalleled eloquence and linguistic perfection were awe-inspiring in 7th-century Arabia, a time when poetry and oratory were highly valued. Its language astonished even the most accomplished poets and orators, leading many to embrace Islam, recognizing the Qur'an's inimitable nature.
2. **Tangible Miracles:** These are physical phenomena witnessed by the Prophet Muhammad's contemporaries, such as the splitting of the moon, the springing of water from unexpected sources, and other extraordinary events, which served as visible signs of divine power.
3. **Scientific Miracles:** In the modern era, numerous scientific discoveries align with descriptions found in the Qur'an, which was revealed over 1,400 years ago. This book focuses on such scientific miracles, demonstrating how these ancient revelations resonate with contemporary scientific understanding. While this is not an exhaustive list, the examples presented offer a glimpse into some of the most remarkable alignments between Qur'anic verses and modern science. The content is structured simply, identifying each scientific discovery or theory, the corresponding Qur'anic verse, and a brief explanation.



4. **Historical Miracles:** The Qur'an has made prophecies that have been fulfilled with remarkable precision, such as the preservation of Pharaoh's body and the defeat and subsequent victory of the Romans against the Persians, showcasing the Qur'an's flawless insight into historical events.
5. **Psychological and Social Miracles:** The Qur'an has had a profound impact on moral and societal values, shaping communities and guiding individuals toward ethical and righteous conduct, transforming societies throughout history.
6. **Mathematical and Numerical Miracles:** The Qur'an contains many intricate numerical patterns, such as the mention of the word "day" (*yawm*) exactly 365 times, corresponding to the number of days in a year, further illustrating its profound precision.



This book specifically explores the scientific miracles embedded within the Qur'an, illustrating how these ancient insights continue to hold relevance in light of modern scientific discoveries. By focusing on these aspects, we aim to demonstrate the harmonious relationship between faith and reason, highlighting the Qur'an's timeless wisdom and confirming its divine origin as the true word of Allah, the Creator and All-Knowing.

Qualification Statement: This effort to identify scientific facts in relation to Qur'anic revelations reflects the current stage of human understanding and discovery. While scientific knowledge continues to evolve, the Qur'an remains the eternal truth, the word of the Creator. As new scientific findings emerge that may differ from current interpretations, this should not be seen as undermining the credibility of the Qur'an, but rather as a reflection of the limitations in our present understanding of how these facts are conveyed in the holy scripture. The Qur'an will continue to reveal signs of the Creator's existence and power to humanity until the end of time.

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Introduction

In a world where science and faith are often perceived as opposing forces, this book seeks to explore the harmonious relationship between the Qur'an and modern scientific discoveries. The Qur'an, revealed over 1,400 years ago, is not a scientific text, yet it contains profound insights into phenomena that, from a faith-based perspective, are manifestations of God's active, continuous will - phenomena which scientists have only recently begun to understand in detail. Through careful analysis of key Qur'anic verses alongside scientific discoveries, this book illustrates how the revelations in the Qur'an remain relevant and resonate with modern knowledge.

A key insight from Hafidh Saif Al-Rawahy's book 'Discovery Journey to Faith': Islamic Insights on Atheism, Agnosticism, and Truth-Seeking highlights an essential distinction: scientific explanations are based on models that do not claim to represent "absolute truth." These models, rooted in empirical data and scholarly interpretations, evolve as new observations emerge. Al-Rawahy asserts, "Truth is not set in stone," emphasizing that scientific truths are always subject to change as they are derived from limited empirical evidence. Science, by its nature, is a continuous journey of discovery rather than a final destination of absolute certainty.

This concept is pivotal in understanding the relationship between science and religion, particularly within the framework of Islam. While scientific theories may shift over time, the Qur'an remains a constant source of truth. When scientific discoveries appear to align with Qur'anic revelation, they serve as affirmations rather than validations. And when scientific models change, it is not the Qur'an that is questioned, but the limits of human understanding. As Al-Rawahy notes, "science can only provide a partial understanding of reality." When approached rigorously and objectively, scientific inquiry does not negate the Creator; rather, it can lead thoughtful minds toward recognition of a Necessary Being and, consequently, the credibility of His revelation.

This book presents the scientific signs embedded in the Qur'an and as an invitation to reflect on the profound alignment between revelation and discovery. It underscores the beauty of both science and faith - each contributing to our quest for understanding, one through empirical investigation and the other through divine revelation. While science offers a framework for explaining the physical universe, it is the Qur'an that provides the eternal

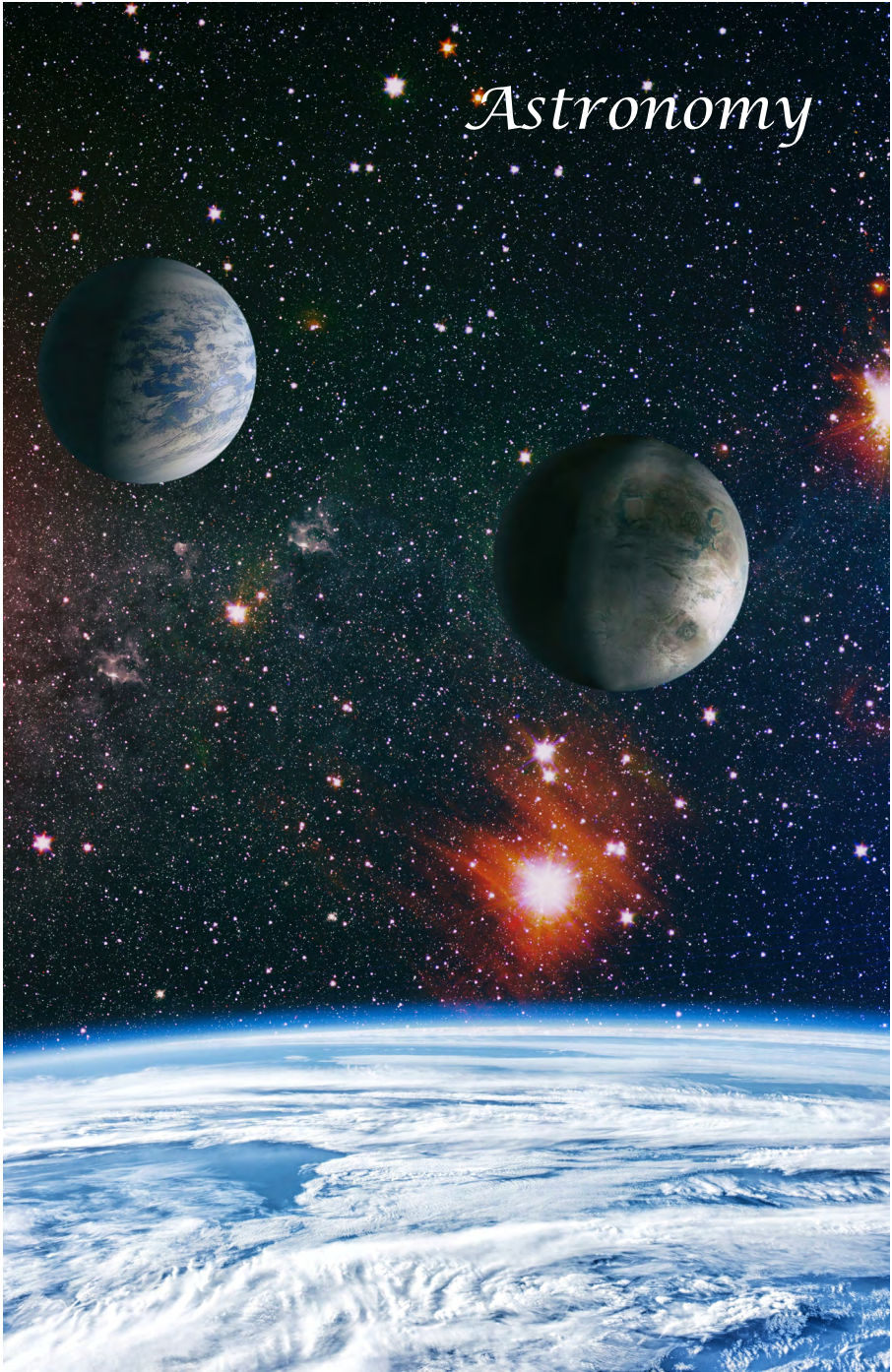
truth, guiding humanity with insights that transcend time.

By bridging the gap between ancient scripture and modern inquiry, this book demonstrates how the timeless wisdom of the Qur'an continues to reveal the Creator's signs in a world where scientific knowledge is ever-evolving. In doing so, it invites readers to explore how faith and reason coexist, each contributing to a greater understanding of existence. However, it is important to remember that Qur'an speaks of signs of God which are revealed in everything, not just limited to true scientific knowledge.



*The **astrolabe** is described by Dr. Herold Williams, an American Astrophysicist, as “the most important astronomical calculating device before the invention of digital computers”. It is known that the instrument was in use in one form or another as early as the 4th century C.E., but the instrument was fully developed and its uses expanded by Muslim astronomers in the 8th century because they needed to determine prayer times and the direction of Makkah.*

Astronomy



Creation of the Universe

Before the rise of modern science, the origins of the universe were understood primarily through philosophical reasoning and religious narratives. Some ancient traditions envisioned the universe as eternal and unchanging, while others described its beginning through creation stories involving divine or supernatural forces. Within the scientific world, however, the idea of a single initiating event was not widely developed until the emergence of modern cosmology - though the notion of creation itself had long been affirmed in many religious and philosophical traditions.

Development of the Big Bang Theory

1. Early 20th Century Foundations:

In the early 20th century, scientists began to challenge the notion of a static universe. Albert Einstein's theory of relativity (1915) introduced the idea that the universe is dynamic. The mathematical implications of his equations suggested that the universe could either be expanding or contracting.

2. Hubble's Discovery (1929):

In 1929, astronomer Edwin Hubble provided observational evidence for an expanding universe. He discovered that distant galaxies are moving away from us, and the farther they are, the faster they recede. This observation supported the idea that the universe is not static but is, in fact, expanding.

3. Georges Lemaître (1927):

Belgian priest and physicist Georges Lemaître independently proposed a theory that the universe began from a "primeval atom" or a "cosmic egg" that exploded, resulting in the expansion of the universe. His ideas laid the groundwork for what would later be known as the Big Bang theory.

4. Cosmic Microwave Background Radiation (1965):

A significant piece of evidence for the Big Bang theory came with the discovery of cosmic microwave background radiation (CMB) by Arno Penzias and Robert Wilson. The CMB is a faint glow left over from the hot, dense state of the early universe and serves as a critical piece of evidence supporting the Big Bang theory.

5. Advancements in Cosmology:

Over the decades, further observations and technological advancements have refined our understanding of the Big Bang, including the detection of gravitational waves and insights from satellite missions like the Wilkinson Microwave Anisotropy Probe (WMAP) and the Planck spacecraft, which have provided what is believed to be precise measurements of the universe's age, composition, and expansion rate.

Scientific Facts Relating to the Big Bang Theory

- ❁ **Initial Singularity:** The Big Bang theory posits that the universe began approximately 13.8 billion years ago from an extremely hot and dense singularity.
- ❁ **Expansion of Space:** Following the initial explosion, space itself began to expand, causing matter and energy to spread out and cool, leading to the formation of fundamental particles and eventually atoms.
- ❁ **Formation of Cosmic Structures:** Over billions of years, these atoms coalesced under the force of gravity to form stars, galaxies, and larger cosmic structures we observe today.
- ❁ **Finely calibrated parameters necessary for cosmic order:** The universe operates within remarkably precise physical constants that were set in the First millionth of a second. Even slight variations in any one of these constants would have rendered the universe as we know it impossible. For example, if the ratio between the strong nuclear force and the electromagnetic force were marginally different, stars could not have formed, and the emergence of life would have been precluded. When this condition is considered alongside the many other finely calibrated parameters required for cosmic order, the likelihood of such a universe arising by chance appears exceedingly remote.

Qur'anic Perspective on the Creation of the Universe

The stages of creation and the origins of the universe are referenced in several verses in the Qur'an. Notably, **Chapter 21, Verse 30, Chapter 51 verse 47**

and (Chapter 41, Verses 9-12) describe aspects of cosmic creation that resonate with the Big Bang theory.

1. Chapter 21: verse 30 (Surah Al-Anbiya):

أَوَلَمْ يَرَ الَّذِينَ كَفَرُوا أَنَّ السَّمَوَاتِ وَالْأَرْضَ كَانَتَا رَتْقًا فَفَتَقْنَاهُمَا
وَجَعَلْنَا مِنَ الْمَاءِ كُلَّ شَيْءٍ حَيٍّ أَفَلَا يُؤْمِنُونَ

Do not the Unbelievers see that the heavens and the Earth were joined together (as one unit of creation), before we clove them asunder? And We made from water every living thing. Will they not then believe?"

This verse suggests that Allah’s creation of the Universe began as a single unit of creation which then exploded and expanded, aligning with the Big Bang theory’s description of the origin of the universe. The verse emphasizes that knowledge of the origins of creation is not merely descriptive but inherently directive, guiding the human intellect toward recognition of the Creator. It therefore culminates in a powerful rhetorical question - “Will they not then believe?” - which functions both as a reproach to disbelief and as an invitation to faith grounded in reflection upon the very foundations of existence.

2. Chapter 51, Verse 47 (Surah Adh-Dhariyat):

وَالسَّمَاءَ بَنَيْنَاهَا بِأَيْدٍ وَإِنَّا لَمُوسِعُونَ

And it is We who have built the universe with [Our creative] power; and, verily, it is We who are steadily expanding it.

This verse explicitly refers to the expansion of the universe, aligning with Hubble’s discovery that space itself is expanding - a central tenet of the Big Bang theory. Particular emphasis is placed in the verse on the pronoun “We” - “It is We who have built, and We who are expanding.” This usage of the majestic plural serves to underscore divine sovereignty and absolute power, affirming that the construction and continuous expansion of the universe are intentional acts accomplished solely by God’s might.

3. Chapter 41: verses 9-12 (Surah Fussilat)

قُلْ أَيُّكُمْ لَتَكْفُرُونَ بِالَّذِي خَلَقَ الْأَرْضَ فِي يَوْمَيْنِ وَتَجْعَلُونَ لَهُ
أنداداً ذَٰلِكَ رَبُّ الْعَالَمِينَ ﴿٩﴾ وَجَعَلَ فِيهَا رِوْاسِيَ مِنْ فَوْقِهَا وَبَرَكَ
فِيهَا وَقَدَّرَ فِيهَا أَقْوَاتَهَا فِي أَرْبَعَةِ أَيَّامٍ سَوَاءً لِّلسَّالِئِلِينَ ﴿١٠﴾ ثُمَّ أَسْتَوَىٰ
إِلَى السَّمَاءِ وَهِيَ دُخَانٌ فَقَالَ لَهَا وَلِلْأَرْضِ ائْتِيَا طَوْعًا أَوْ كَرْهًا قَالَتَا
أَنِينَا طَائِعِينَ ﴿١١﴾

“Say, ‘Do you really disbelieve in He who created the Earth in two days and attribute to Him equals? He is indeed the Lord of all creation. And He placed on it firmly set mountains, and He bestowed blessings on it, and provided in it means of sustenance adequately according to the needs and demands of all those who ask. This was done in four days. Then He directed to the heaven while it was smoke and said to it and to the Earth, ‘Come into being willingly or unwillingly’. They said, ‘We have come willingly.’”

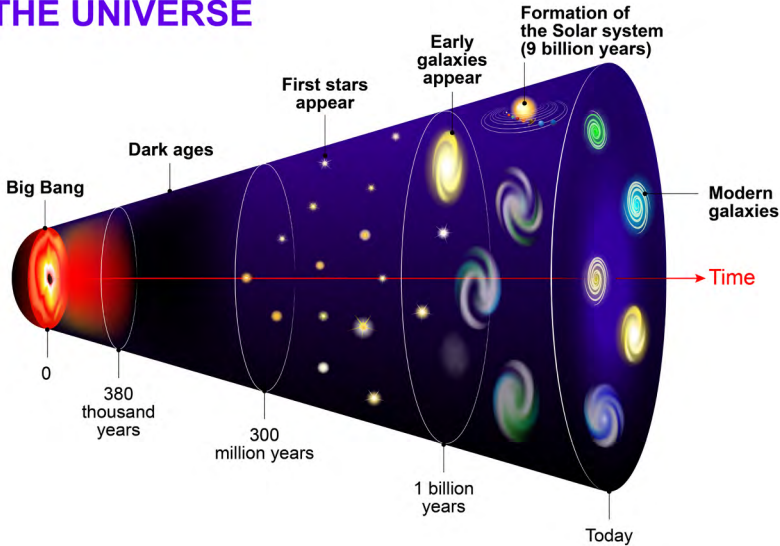
This passage affirms the creation of the heavens and the Earth as a purposeful act of God, with stages whose signs are evident in what modern science observes in the cosmos.

Conformity with Modern Science

1. **Initial Singularity:** The Qur’anic description of a closed mass of heaven and Earth aligns with the concept of an initial singularity in the Big Bang theory. The initial singularity is a concept in the Big Bang theory that refers to a point in time when the universe was thought to have been infinitely dense and hot, containing all the mass and energy of the current universe within an infinitesimal volume. This singularity is considered the starting point of the universe, marking the moment before the Big Bang itself.

2. **Expansion of the Universe:** The verses describing the opening of the heavens and the Earth by Allah , the sole Creator , resonate with the idea of an expanding universe.
3. **Creation Process:** The Qur'an presents a structured approach to creation, emphasizing the stages that reflect the gradual formation of cosmic structures observed in modern cosmology.

EVOLUTION OF THE UNIVERSE



Scientific Fact and Qur'anic Description

The Qur'anic descriptions of the universe's origin exhibit striking parallels with key aspects of the Big Bang theory. The sequence of creation and the transition from an initial singularity to a continuously expanding cosmos reveal a remarkable consonance between revelation and modern scientific understanding. Yet, unlike the scientific narrative - which confines itself to mechanistic explanations - the Qur'an attributes this grand event to the knowledge, will, and power of Allah, situating cosmic origins within a purposeful, divine framework.

Moreover, the Qur'an's references to the stages of creation convey an extraordinary degree of clarity and coherence, remarkably consistent with contemporary discoveries concerning the universe's formation and

development. At a time when ancient civilizations possessed only rudimentary cosmological notions, these verses articulated profound insights that now resonate with the most advanced scientific findings regarding the formation and evolution of the universe.

Commentary:

The Qur'an decisively affirms that the universe is neither autonomous nor self-sustaining. What is witnessed is not a closed mechanical system, but an ongoing, deliberate act of creation - continuously ordered, purposeful, and infused with divine wisdom and power. Each moment of existence is not the inevitable outcome of so-called "natural laws," but rather a direct, intentional manifestation of God's will. What are commonly referred to as "laws of nature" are, in this view, consistent patterns through which Allah executes His command, rather than independent forces operating apart from Him.

اللَّهُ يَبْدَأُ الْخَلْقَ ثُمَّ يُعِيدُهُ ثُمَّ إِلَيْهِ تُرْجَعُونَ

Allah (Alone) originates the creation, then He will repeat it, then to Him you will be returned. (Qur'an, Chapter 30, Verse 11)

It is God who originates all creation. Nothing exists of its own accord or by chance. Furthermore, His creative power and activity is continuous, and with respect to man, we are reminded that death is just a transformation of our present existence to a new existence in another creation.

Elliptical Shape of the Earth

Scientific Discovery

In the 16th and 17th centuries, scientific advancements confirmed that the Earth is not a perfect sphere but an oblate spheroid, meaning it is slightly flattened at the poles and bulging at the equator. This elliptical shape was mathematically described by Isaac Newton's work on gravity, explaining how the Earth's rotation affects its shape. The Earth's equatorial diameter is approximately 43 km larger than its polar diameter.¹

Scientific Facts Relating to Earth's Shape

Oblate Spheroid: The Earth is not a perfect sphere; it is slightly flattened at the poles and bulges at the equator due to its rotation. The term "oblate spheroid" accurately describes this shape.

Qur'anic perspective on the Shape of the Earth

In the Qur'an chapter 79, verse 30 (Surah An-Nazi'at) it is stated:

وَالْأَرْضَ بَعْدَ ذَلِكَ دَحَاهَا

And after that, He made the (planet) Earth egg-shaped.

Explanation of the Verse

The key word in the verse is "dahāhā" (دَحَاهَا). Linguistically, the root d-ḥ-w (د ح و) in Arabic carries the meanings of "to spread," "to expand," or "to make smooth." Classical lexicons, such as Lisan al-'Arab, also mention connotations of shaping or preparing a surface for habitation. In some usages, it is connected to the word duḥiyah (دَحِيَّة), meaning an ostrich egg, because the ostrich digs out and prepares a hollow in the ground for its egg - linking the root with both spreading and an egg-like form. This egg analogy is

1. **Scientists in this Field include Isaac Newton (1642–1727):** His law of universal gravitation helped explain the Earth's elliptical shape, which results through the centrifugal force due to Earth's rotation and **Jean Richer (1630–1696):** A French astronomer whose observations confirmed the Earth's equatorial bulge, further supporting the idea of an elliptical Earth.

noteworthy, as the ostrich egg resembles the Earth's oblate spheroid shape, slightly flattened at the poles and bulging at the equator. Thus, the Qur'anic term *dahāhā* can be understood both as the spreading of the Earth's surface for life and as a subtle allusion to its egg-like, elliptical shape - a meaning consistent with modern scientific knowledge.

Relation to the Scientific Fact

- 1. Elliptical Shape of the Earth:** The Qur'anic term "*dahāhā*" in chapter 79 (Surah An-Nazi'at) suggests the Earth's shape is not a perfect sphere but rather more elliptical, a revelation that corresponds with modern scientific understanding. The verse's use of imagery related to an egg adds precision to the description of Earth's oblate spheroid form.
- 2. Oblate Spheroid and Earth's Rotation:** While scientific discovery confirmed the Earth's shape centuries after the Qur'anic revelation, the verse alludes to this shape in a subtle yet accurate manner. This alignment between the Qur'an and scientific fact is remarkable, considering the information was unknown in the 7th century.

The Qur'an's subtle reference to the Earth's shape in chapter 79 (Surah An-Nazi'at) aligns with modern scientific discoveries, which confirm that the Earth is not a perfect sphere but an oblate spheroid. The description of Earth's shape as resembling that of an egg predates scientific understanding by over 1,000 years, showcasing a fascinating connection between Qur'anic revelations and modern science. This verse is another instance where the Qur'an touches upon complex physical truths long before they were scientifically proven.

Commentary:

Muslims believe that this precision in highlighting the Earth's shape - like every aspect of creation - exists and endures solely by virtue of Allah's continual decree. It is not the outcome of independent or accidental processes, but rather the result of divinely instituted laws and the perpetual command of the Creator. Without Allah's continuous maintenance, none of these careful measurements of Earth's balance and shape would hold.



The scientific knowledge contained in the Qur'an has inspired Muslim scholars of antiquity to explore the nature of the Earth as early as the 8th Century. Al-Biruni (Born 973 CE) , a Muslim polymath, discussed the idea of the Earth rotating on its own axis six centuries before Galileo. Khalifa (Caliph) Al-Ma'mun (813 CE) commissioned Muslim astronomers to measure the Earth's circumference and recorded it as 40,253.4 kilometers. We now know that the circumference of the Earth is 40,068.0 at the Equator and 40,000.6 through the Poles due to the elliptical shape of the Earth. Thus, the earlier Muslim astronomers observations and astronomical calculations were pretty good considering the scientific equipment of the time .

Phases of the Moon and the Sun's Path

Scientific Discovery

In ancient times, based on their observations, people believed that the sun moved around the Earth. With the advancement of astronomical inquiry, this geocentric view was replaced by the heliocentric model, in which the sun was thought to be stationary while the planets orbited around it. Subsequent scientific discoveries, however, have shown that the sun itself is not fixed; rather, it moves along a defined course through space, together with the entire stellar system, at velocities reaching tens to hundreds of kilometers per second.

The **phases of the moon** result from it being designed to orbit around the Earth, reflecting sunlight at different angles as seen from the Earth. In the process of orbiting, the moon goes through several stages, from new moon to full moon and back, over a 29.5-day lunar cycle. The established path of the sun, due to the determined Earth's rotation and orbit, also follows predictable patterns, which have been studied since ancient times by astronomers like Hipparchus and Ptolemy. Recent observations have shown that the moon's path in its orbit resembles the curved shape of an old **date stalk**, particularly when viewed in its crescent phases

Scientific Facts Related to the Moon's Phases and the Sun's Path

1. **Lunar Phases:** In its established path orbiting the Earth, different portions of the moon become illuminated by the sun rays, resulting phases such as the crescent, half-moon, and full moon. These phases have been scientifically understood for centuries but are described in surprisingly vivid detail in the Qur'an.
2. **The Moon's Orbit:** Recent scientific imagery of the moon's path shows that its elliptical orbit resembles the curved shape of an old date stalk, an analogy made in the Qur'an long before modern science could confirm it.

Qur’anic Verse Describing the Moon’s Phases and the Sun’s Path

In the Qur’an chapter 36, verse 39-40 (Surah Ya Sin) it is stated:

وَالشَّمْسُ تَجْرِي لِمُسْتَقَرٍّ لَهَا ذَلِكَ تَقْدِيرُ الْعَزِيزِ الْعَلِيمِ ﴿٣٨﴾
وَالْقَمَرَ قَدَرْنَاهُ مَنَازِلَ حَتَّىٰ عَادَ كَالْعُرْجُونِ الْقَدِيمِ ﴿٣٩﴾ لَا الشَّمْسُ
يَنْبَغِي لَهَا أَنْ تُدْرِكَ الْقَمَرَ وَلَا اللَّيْلُ سَابِقُ النَّهَارِ وَكُلٌّ فِي فَلَكٍ
يَسْبَحُونَ ﴿٤٠﴾

“And the sun runs towards a prescribed destination, that is the determination of the Exalted in Might, the All-knowing. And the moon, We have determined for it phases, until it returns [appearing] like the old date stalk. Neither is it possible for the sun to overtake the moon, nor for the night to outstrip the day. Each is gliding in its own orbit. “

Explanation of the Verse

These verses from the Qur’an clearly state that it is Allah who has set the sun in continuous motion along a determined course and has appointed phases for the moon, whose movement passes through various “stations” or stages. The verse draws an analogy between the moon’s shape in its waning phase and an **old date stalk** (dry palm-branch), which is a highly accurate description of the crescent shape. Furthermore, it states that **the sun and moon follow distinct orbits** and do not interfere with each other’s paths. This describes the independent nature of the celestial bodies, which swim in their respective orbits.



*The picture of the elliptical orbit of the moon (above), made possible only by modern photographic equipment, bears striking resemblance to an old **date stalk** referred in the Qur'an.*



Relation to the Scientific Fact

- 1. Lunar Phases:** The Qur'an's analogy of the moon's phases being like an old date stalk precisely mirrors the crescent shape that the moon takes during certain phases of its orbit. Modern astronomy has confirmed that the moon goes through distinct phases as it orbits the Earth, which this verse describes vividly.
- 2. Distinct Celestial Paths:** The reference to the sun and moon following their own orbits aligns with modern astronomy. The Qur'an's clear indication that the sun and moon do not overlap in their paths (*"It is not*

allowable for the sun to reach the moon”) is an accurate description of the separate and distinct orbits of these celestial bodies.

- 3. Remarkable Alignment:** The fact that this description was presented over 1,400 years ago in the Qur’an, long before modern scientific equipment and knowledge, underscores its alignment with scientific facts, particularly the description of the **moon’s phases and orbit**.

The phases of the moon follow a continuous and orderly cycle throughout each lunar month. Beginning as a slender crescent, it waxes gradually until reaching fullness around the fourteenth night, after which it wanes in steady succession until it returns once again to its initial crescent form. This pattern has persisted with remarkable regularity over vast spans of time, without deviation or disruption. Such consistency enables the precise calculation of lunar phases on any given date - something inconceivable were its motion not governed by a meticulously ordered system.

Likewise, the sun is constrained by fixed limits: it neither overtakes the moon nor disrupts its appointed order. It does not rise unexpectedly during the night when the moon is visible, nor does the night encroach before the day has completed its course. These Qur’anic verses, therefore, are not merely descriptive of astronomical phenomena; rather, they serve a deeper purpose - to awaken the human intellect and heart to the reality that within the harmony and precision of the cosmos lie countless signs testifying to the existence and oneness of God.



The Expanding Universe

Scientific Discovery

In 1929, the astronomer **Edwin Hubble** made a groundbreaking discovery that distant galaxies are moving away from us, indicating that the universe is expanding. This led to the formulation of **Hubble's Law**, which confirmed that the universe is not static but continually growing larger. This finding was foundational to the development of modern cosmology and the Big Bang theory.

Qur'anic Perspective on the Expanding Universe

In the Qur'an chapter 51, verse 47 (Surah Adh-Dhariyat) it is stated:

وَالسَّمَاءَ بَنَيْنَاهَا بِأَيْدٍ وَإِنَّا لَمُوسِعُونَ

And the firmament, We constructed with power and skill, and verily We are expanding it."

Explanation of the Verse

This verse from the Qur'an speaks about the **construction of the heavens** (firmament) with divine power and mentions that the Creator is "expanding it." This description indicates that the **heavens** - interpreted by Islamic scholars as the universe - are continuously being expanded by the Almighty Allah, aligning remarkably with modern scientific understanding.

Relation to the Scientific Fact

1. **Expansion of the Universe:** The Qur'anic verse refers to the expansion of the heavens by Allah design, which aligns with modern discoveries about the **expanding universe**. While this concept was scientifically confirmed in the 20th century by Edwin Hubble, the verse in the Qur'an had hinted at this cosmic expansion over 1,400 years ago.

2. **Alignment with Modern Astronomy:** The Qur'an's description mirrors what has been confirmed by astronomers - that the universe has been expanding (as designed by the Creator) since the Big Bang, with galaxies moving further apart. This expansion was unknown in the early 7th century, making the Qur'an's reference to this phenomenon particularly noteworthy in the context of its time.
3. **Power and Precision:** The Qur'an emphasizes that this expansion is carried out with **power and precision**, which reflects the intricate and vast nature of the universe's expansion as understood in modern cosmology. This further solidifies the verse's relevance to the findings of modern science regarding the scale and complexity of the universe.

The Qur'an's mention of the **expanding universe** in **chapter 51 (Surah Adh-Dhariyat)** aligns with the scientific discovery made by Edwin Hubble in 1929. This verse, revealed over a millennium before the development of modern cosmology, accurately reflects the phenomenon of **cosmic expansion**, providing a striking example of the Qur'an's consistency with scientific knowledge.

This remarkable concordance serves to affirm that cosmic expansion unfolds according to the precise and unceasing governance of Allah, rather than by independent physical laws acting on their own.

Incidentally, scientists now are postulating that once the energy which came from the initial explosion is used up, the universe will be contracted to a singularity once again. The Qur'an alludes to this postulate in chapter 21, verse 104:

يَوْمَ نَطْوِي السَّمَاءَ كَطَيِّ السِّجِلِّ لِلْكُتُبِ ۗ كَمَا بَدَأْنَا أَوَّلَ خَلْقٍ
تُعِيدُهُ، وَعَدَّا عَلَيْنَا إِنَّا كُنَّا فَاعِلِينَ

*On that Day, We shall roll up the heaven like a written scroll is rolled.
As We originated the first creation, so will We bring it back again. This
is a binding promise on Us which We shall assuredly fulfill.*

The Moon's Reflected Light

Scientific Discovery

The moon does not emit its own light but instead **reflects light from the sun**. This was scientifically confirmed through astronomical observations. In modern times, we understand that the moon's visibility is due to the **reflection of sunlight**, which gives it the appearance of glowing, even though it produces no light of its own.

Qur'anic Verse Describing the Moon's Reflected Light

In the Qur'an chapter 71, verses 15-16 (Surah Nuh) it is stated:

أَلَمْ تَرَوْا كَيْفَ خَلَقَ اللَّهُ سَبْعَ سَمَوَاتٍ طِبَاقًا ۚ وَجَعَلَ
الْقَمَرَ فِيهِنَّ نُورًا وَجَعَلَ الشَّمْسَ سِرَاجًا ۚ

Do you not see how Allah has created the seven heavens one above another, and made the moon a light (Nūr) in their midst, and made the sun a lamp (Sirāj)?

Explanation of the Verse

This verse distinguishes between the **moon's light (Nūr)** and the **sun's light (Sirāj)**. The word **Nūr** in Arabic refers to a **reflected or borrowed light**, while **Sirāj** implies a **source of light or a lamp**. The distinction suggests that the moon shines with a **reflected light**, while the sun is the actual source of light.

Relation to the Scientific Fact

1. **Reflected Light of the Moon:** The Qur'an's description of the moon as "Nūr", meaning reflected light, aligns with modern astronomical discoveries that the moon does not produce light of its own, but instead has been given the ability to reflect the light emanating from the sun. This distinction, presented in the Qur'an, accurately describes the **nature of the moon's luminosity**.

2. **Contrast with the Sun's Light:** By referring to the sun as a **lamp (Sirāj)**, the Qur'an differentiates the sun's role as a source through which light emanates, a fact now confirmed through our understanding of the sun's nuclear fusion processes, which has been given the ability to generate light and heat. This scientific fact, while commonly known today, was not established until modern times, making the Qur'an's clarity on this matter remarkable for the time it was revealed.
3. **Historical Context:** At the time the Qur'an was revealed (over 1,400 years ago), it was generally believed that the moon emitted its own light. The Qur'an's use of language that correctly identifies the **moon's light as reflected light** is noteworthy, especially when compared with the prevailing beliefs of that era.

The Qur'an's mention of the moon as a light that **reflects** the sun's brightness is scientifically consistent with modern astronomy's understanding of the moon's illumination. The distinction between the **moon's reflected light** and the **sun's direct light** in chapter 71 (Surah Nuh) aligns with discoveries about the nature of celestial bodies made centuries after the Qur'an's revelation. Importantly, the Qur'an also reminds us that these processes are not self-sustaining or independent; the sun's power to generate light through fusion, and the moon's capacity to reflect it, are both abilities granted and sustained by God at every moment.



The moon close to the planet Earth with the Sun on the background

Oceanography



Darkness in Deep Seas

Pre-modern scientific advancements, people had little knowledge of the conditions in the deep ocean waters. The understanding of the sea was limited to its surface or shallow depths, where sailors and fishermen observed waves, storms, and currents. The deep sea, however, remained a mystery due to its inaccessibility.

It wasn't until modern oceanographic explorations began that scientists discovered the profound darkness that exists in the depths of the oceans. With advancements in underwater exploration technologies, scientists could study these extreme environments, revealing that beyond a certain depth - about 200 meters - sunlight can no longer penetrate the water, resulting in absolute darkness. Below this level, light is almost non-existent, and deep-sea creatures rely on bioluminescence to navigate and survive.

Oceanographers identified the layers of darkness in the deep sea as follows:

- ☼ **Euphotic Zone (0-200 meters):** This is the surface layer where sunlight can still penetrate, allowing photosynthesis.
- ☼ **Disphotic Zone (200-1,000 meters):** Light becomes minimal, and photosynthesis is no longer possible.
- ☼ **Aphotic Zone (1,000 meters and deeper):** The deep sea is completely dark, with no sunlight penetrating these depths. It is in this zone that absolute darkness prevails, coupled with extreme pressure and cold.

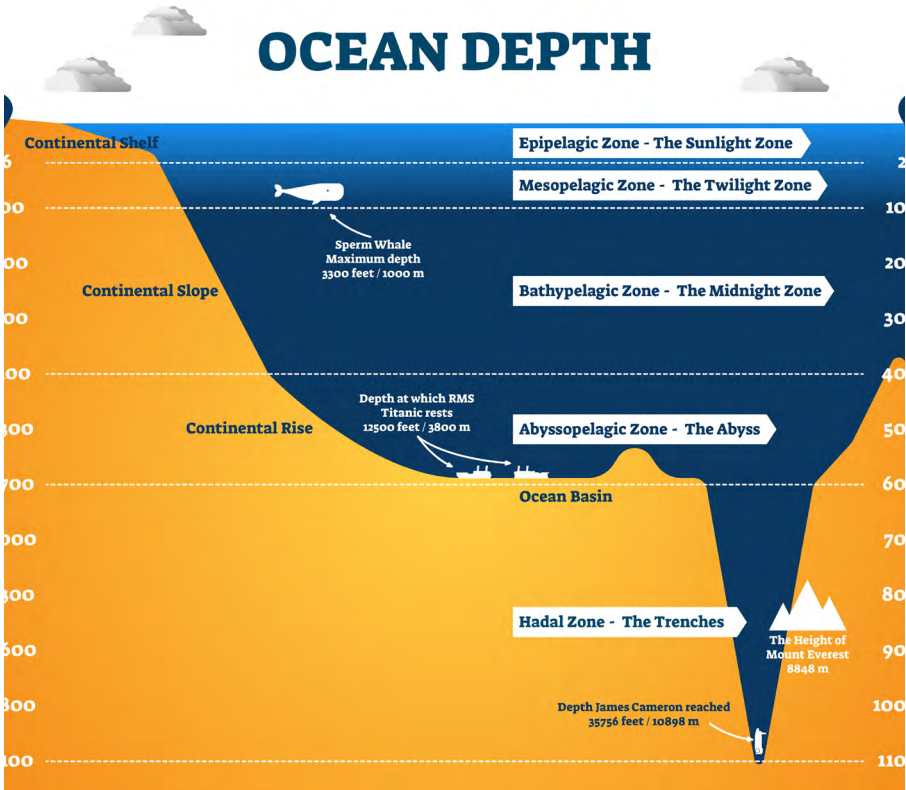
Scientific Discoveries in Deep-Sea Darkness: Researchers have confirmed that the ocean depths are not only dark but also structured in layers of increasing darkness, depending on the amount of sunlight that can penetrate. Additionally, the presence of multiple layers of waves, known as internal waves, further contributes to the complex movement of water in the deep ocean. These waves move beneath the surface, undetectable from above, and can span hundreds of meters high, further contributing to the darkness.

Qur'anic Perspective: The Qur'an, in Chapter 24, Verse 40 (Surah An-Nur), vividly describes the intense darkness of the deep seas:

أَوْ كَظُلُمَاتٍ فِي بَحْرٍ لُجِّيٍّ يَغْشَاهُ مَوْجٌ مِّنْ فَوْقِهِ مَوْجٌ مِّنْ فَوْقِهِ سَحَابٌ ظَلَمَاتٌ بَعْضُهَا فَوْقَ بَعْضٍ

Or (the state of unbelievers) is like the darkness in a deep sea. It is covered by waves, upon which are waves, above which are clouds, layers of darkness, one above another.

This verse remarkably describes the layered nature of darkness in the deep ocean. It refers to the depth of the sea, the waves that cover the sea, and the clouds above - all contributing to the multilayered darkness.



Relation to the Scientific Fact:

- ❁ **Deep Sea (Bahr Lujji):** The Qur'an refers to the "deep sea" (*Bahr Lujji*), signifying the vast and inaccessible depths of the ocean, which modern oceanography has shown to be devoid of sunlight.
- ❁ **Layers of Waves:** The verse refers to waves above waves, which modern scientists have identified as both surface waves and internal waves in the ocean. These internal waves occur in the deep sea and contribute to the layered structure of the ocean's darkness.
- ❁ **Darkness upon Darkness:** The Qur'an's description of "darkness upon darkness" is scientifically accurate. Beyond the reach of sunlight, the ocean becomes progressively darker, with the deepest layers being completely devoid of light.

Conformity with Modern Science: The Qur'an's description of the layers of darkness in the deep sea aligns closely with modern oceanographic discoveries. The concept of internal waves and the complete absence of light at great depths were unknown during the time of revelation but are now well-understood phenomena. This demonstrates the Qur'an's profound articulation in describing natural phenomena that were only fully explained by modern science centuries later.

The correspondence between the Qur'anic description of deep-sea darkness and modern oceanography reveals a remarkable alignment. The detailed reference to "darkness upon darkness" in the Qur'an not only highlights the limitations of human understanding at the time of revelation but also serves as a testament to the timeless wisdom embedded in these verses. Modern science continues to uncover and validate the profound knowledge described in the Qur'an over 1,400 years ago.



Barrier between two seas

Before the advancements of oceanography, the idea that two bodies of water could meet but remain distinct was not well understood. Mankind observed the water boundaries, such as rivers flowing into the sea, but the scientific mechanisms behind why some waters do not mix remained unexplained.

In the 20th century, oceanographers discovered that when two seas or bodies of water meet, they often remain separate due to differences in salinity, temperature, and density. This phenomenon is referred to as a “halocline,” a term used to describe a distinct boundary layer between bodies of water with different properties. These boundaries prevent the waters from mixing freely, creating what scientists call “barriers” or “interfaces” between the two seas.

Scientific Discoveries in Oceanography:

- ✿ **Haloclines:** A halocline is a layer in the ocean where there is a rapid change in salinity compared to the surrounding water. This difference in salinity creates a barrier that prevents waters from mixing.
- ✿ **Thermoclines:** Similar to haloclines, thermoclines are layers where there is a sudden change in water temperature. Differences in temperature also create distinct layers in the ocean.
- ✿ **Density Differences:** The variation in density between two bodies of water - often as a result of differences in salt concentration - also creates a physical barrier, preventing them from freely mixing.

These discoveries have shown that, even when two seas meet, such as the Mediterranean Sea and the Atlantic Ocean, they maintain their own distinct characteristics without completely merging. The density and salinity differences create a natural partition that holds the waters apart, even though they are physically adjacent.

Qur'anic Perspective in Oceans and the Separation of the Seas:

In Chapter 55, Verses 19-20 (Surah Ar-Rahman) , the Qur'an describes the phenomenon of two bodies of water meeting but not mixing:

مَرَجَ الْبَحْرَيْنِ يَلْتَقِيَانِ ﴿١٩﴾
بَيْنَهُمَا بَرْزَخٌ لَّا يَبْغِيَانِ ﴿٢٠﴾

*He has let free the two bodies of flowing water, meeting together:
Between them is a barrier which they do not transgress*

These verses describe the meeting of two bodies of water and indicate that, despite their proximity, they do not overtake or merge with each other because of a barrier (*barzakh*) that prevents them from mixing.



This is where the Baltic Sea meets the North Sea, coming from the opposite direction. The two seas, which differ in density and other properties, meet but do not mix.

Relation to the Scientific Fact:

- ✿ **Meeting of Two Bodies of Water:** The verse mentions that the seas meet but are kept separate and are refrained from transgressing the barrier between them, which correlates with modern oceanography's discovery that bodies of water remain distinct due to haloclines, thermoclines, and density differences.
- ✿ **Barrier (Barzakh):** The Qur'an's use of the word "*barzakh*" (barrier) aligns perfectly with the scientific understanding of how these invisible yet powerful boundaries exist in the ocean. While the water bodies are next to each other, their different properties (salinity, temperature, and density) prevent them from fully mixing.

Oceanographers have found such phenomena where seas meet, including notable examples such as the Mediterranean Sea and the Atlantic Ocean, where the Mediterranean's higher salinity and temperature are prevented from mixing freely with the colder, less saline Atlantic waters. This confirms the Qur'an's description of the two bodies of water being separated by a barrier.

Conformity with Modern Science:

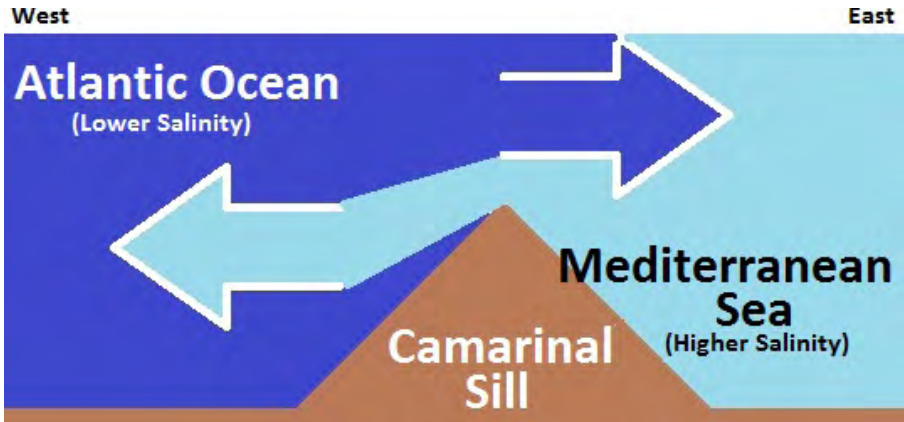
The Qur'an's description of two bodies of water meeting but not mixing aligns with the discoveries of modern oceanography. The haloclines and other physical barriers described by scientists today provide an exact match for the Qur'an's mention of a "barrier" that prevents the seas from transgressing into one another. Despite being revealed over 1,400 years ago, these verses encapsulate a concept that was only fully understood in the 20th century, demonstrating the depth of the Qur'an's insights into the physical world.

The conformity between the Qur'anic description of oceans and seas not mixing and modern scientific discoveries highlights a profound harmony between revelation and contemporary knowledge. The verses in chapter 30 of the Qur'an accurately describe the natural barriers that prevent seas from blending, reflecting an understanding of complex oceanic processes long before they were discovered by modern science. This remarkable alignment continues to inspire awe, showing how the verses in the Qur'an are in conformity with scientific discovery, further emphasizing the timeless wisdom found in it.

The Qur'an confirm that this *barzakh* is an intentional act of the Creator and not just because of the conditions explained above but through them Allah ensures this phenomenon is upheld. This is very clear in Surat al Naml verse 61:

أَمَّنْ جَعَلَ الْأَرْضَ قَرَارًا وَجَعَلَ خِلَالَهَا أَنْهَارًا وَجَعَلَ لَهَا رَوَاسِيَ وَجَعَلَ
 بَيْنَ الْبَحْرَيْنِ حَاجِزًا أَلَيْسَ اللَّهُ بِأَكْبَرَهُمْ لَا يَعْلَمُونَ ﴿٦١﴾

Or 'ask them,' "Who made the Earth a place of settlement, caused rivers to flow through it, placed firm mountains upon it, and set a barrier between 'fresh and salt' bodies of water? Was it another god besides Allah?" Absolutely not! But most of them do not know.



There is a dynamic boundary that restricts mixing of the waters at the strait of Gibraltar. The Mediterranean waters are saltier than the Atlantic waters that they sink below the incoming water and form a highly saline layer of bottom water. This layer of bottom-water works its way out into the Atlantic as the Mediterranean outflow. On the Atlantic side, a density boundary separates the Mediterranean outflow waters from the rest at about 100 m depth. These waters flow out and down the continental slope, losing salinity, until they begin to mix and equilibrate more much farther out at a depth of about 1,000 m

Meteorology



The Water Cycle & the Formation of Rain

Prior to modern scientific advancements, rain was often viewed as a mysterious or divine process, with ancient cultures attributing it to supernatural forces. Various civilizations had their own myths and theories about how rain was formed, with little scientific understanding of the underlying mechanisms. These civilizations attributed rainfall to various deities, supernatural forces, or celestial events.

- » The **Greeks** believed Zeus controlled rain, sending it as a **reward or punishment**.
- » The **Norse** associated rain with **the tears of their gods**, linking it to cosmic struggles.
- » The **Egyptians** believed their gods caused the **Nile to flood**, bringing fertility to their lands.
- » In **pre-Islamic Arabia**, people thought rain was **brought by celestial deities** rather than being part of an ongoing process governed by divine wisdom.

It wasn't until the 19th century, with the advent of modern meteorology, that what is now called the water cycle was scientifically explained. Meteorologists observed the evaporation of water from the Earth's surface, the formation of clouds through condensation, and then the return of water to the Earth as precipitation in the form of rain, snow, or hail. Through this continuous cycle - known as the hydrological cycle - God ensures that water circulates between the oceans, atmosphere, and land, sustaining life on Earth.

Scientific Discoveries in Rain Formation:

- ☼ **Evaporation:** Water from oceans, rivers, and lakes heats up through the sun's energy and, through evaporation, is carried into the atmosphere as water vapor.
- ☼ **Cloud Formation:** As the water vapor is gathered in the atmosphere, it is cooled and condensed into tiny droplets, forming clouds. These droplets are gathered around dust particles or other small airborne particles, becoming visible as clouds.
- ☼ **Precipitation:** When these droplets are made to grow large enough, they are made to fall to the earth through gravity forces and poured down as rain or other forms of precipitation.

❁ **Role of Winds:** Through Winds, water vapor and clouds are transported across different regions, ensuring rain is distributed to various distant places.

All these steps are actually not **mechanical or autonomous**; rather, it is **Allah's continuous, purposeful action**. The rain falls every time because **He makes it fall** - it does not descend by itself.

Qur'anic Perspective in Rain Formation:

The Qur'an describes rain not as a **random event** nor as an **autonomous cycle**, but as a **direct, repeated, and deliberate act of Allah**.

In Chapter 30, Verse 48 (Surah Ar-Rum), the Qur'an describes the process of rain formation:

اللَّهُ الَّذِي يُرْسِلُ الرِّيحَ فَثِيرُ سَحَابًا فَيَبْسُطُهُ فِي السَّمَاءِ
كَيْفَ يَشَاءُ وَيَجْعَلُهُ كِسْفًا فَتَرَى الْوَدْقَ يَخْرُجُ مِنْ خِلَالِهِ
فَإِذَا أَصَابَ بِهِ مَن يَشَاءُ مِنْ عِبَادِهِ إِذَا هُمْ يَسْتَبْشِرُونَ

It is Allah Who sends the winds, and they raise the clouds: then does He spread them in the sky as He wills, and break them into fragments, until thou seest rain-drops issue from the midst thereof.

The verse clearly points to Allah as the cause of winds, clouds, process, and rain by emphasizing that it is Allah who creates all causes through which He brings rain-drops. The **verb tenses** used in the Qur'an indicate continuous, **recurring action** - showing that each time it rains, it is because Allah actively commands it to happen.



Relation to the Scientific Fact:

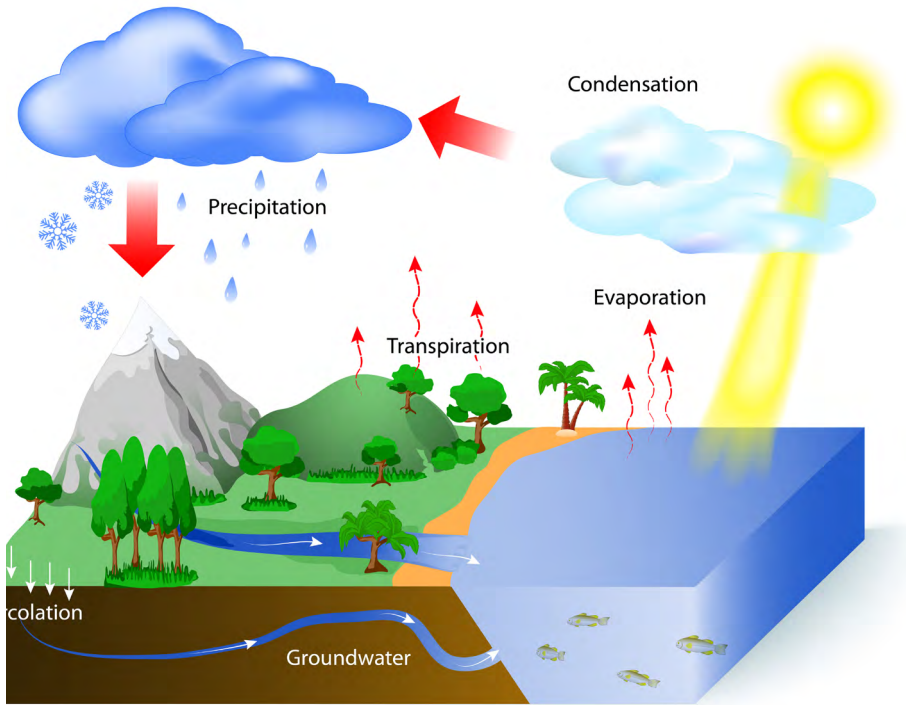
- ❁ **Role of Winds:** The verse mentions how “Allah sends the winds,” which correlates with modern meteorology’s understanding that winds are essential in transporting moisture and driving the movement of clouds across the atmosphere.
- ❁ **Cloud Formation:** The verse continues to describe how the Creator through winds “raise the clouds,” reflecting the scientific fact that winds help in lifting water vapor, which cools and condenses into clouds. These clouds are then spread across the sky, just as modern science explains the dispersion of clouds by atmospheric currents.
- ❁ **Rain-Drops Issuing from Clouds:** The Qur’an describes how clouds are broken into fragments as rain from the clouds, perfectly aligning with the scientific explanation that once cloud droplets grow large enough, they fall as precipitation. The phrase “break them into fragments” aligns to the process by which clouds release rain in varying intensities, as confirmed by modern meteorological studies.

Conformity with Modern Science:

The Qur’an’s description of rain formation remarkably mirrors the modern scientific understanding of the water cycle. Despite being revealed over 1,400 years ago, the verse in chapter 30 quoted above captures the essential elements of this process - winds transporting clouds, condensation, and the subsequent precipitation of rain - highlighting an understanding of the processes that were only fully explained by modern science centuries later.

The correspondence between the Qur’anic description of rain formation and modern meteorology underscores the deep harmony between the revelation and contemporary scientific discovery. The Qur’an’s detailed reference to the role of winds, cloud formation, and the release of rain not only matches modern meteorological knowledge but also reflects a profound insight into the physical universe.

The Qur'an verses demonstrate that rain is not a **mechanical cycle**, but rather, **a mercy given when Allah decrees it, withheld when He wills, and sent in precise measure**, unlike the **secular interpretations that wrongly attribute these acts to "nature" or "random chance"** instead of recognizing them as manifestations of divine will and power.



Pictorial presentation of the water cycle

Geology



Mountains and the Stability of the Earth's Crust

Scientific Development in the Subject

Before the advent of modern geology, mountains were often thought of merely as towering structures without a deeper understanding of their formation or their purpose in the stability of the Earth. It wasn't until the development of the field of geology that scientists began to understand that mountains are not just visible formations but also have roots that extend deep into the Earth. These roots, often referred to as the "roots of mountains," act as stabilizers, holding the Earth's crust in place and providing stability to prevent excessive movement or displacement.

The concept of isostasy, developed in the 19th century by George B. Airy and John Henry Pratt, provided a clearer understanding of how mountains function. According to isostasy, mountains are like icebergs: while their peaks are visible above ground, the larger bulk of their mass is below the Earth's surface, acting as a stabilizing force.

This deep-rooted structure of mountains helps to balance the Earth's crust, distributing weight evenly and preventing drastic shifts in the tectonic plates. This concept is also crucial in understanding the role of mountains in maintaining the balance of the Earth's surface, particularly in relation to tectonic activities.²

Scientific Facts Relating to Mountains

✿ **Roots of Mountains:** Geology confirms that mountains have deep roots, which penetrate the Earth's crust and extend into the mantle. These roots act like pegs or stakes, stabilizing the Earth's surface.

2. The Scientists in this field include, (1) **George B. Airy (1801–1892):** An English mathematician and astronomer who contributed to the theory of isostasy, explaining how mountains have roots beneath the Earth's surface. (2) **John Henry Pratt (1809–1871):** A British geophysicist who proposed an alternative model to Airy's theory, explaining how mountains achieve equilibrium based on their density.

- ❁ **Role of Mountains in Stability:** Mountains help to maintain the balance of the Earth’s crust, preventing excessive tectonic movements and serving as stabilizers during earthquakes.
- ❁ **Isostasy:** This theory explains that mountains, like icebergs, have a visible portion above the surface but are anchored by deep roots beneath the Earth.

Qur’anic perspective:

In the Qur’an chapter 78, verses 6-7 it is stated:

أَلَمْ نَجْعَلِ الْأَرْضَ مِهْدًا ﴿٦﴾ وَالْجِبَالَ أَوْتَادًا ﴿٧﴾

“Have We not made the Earth as an abode of perfect peace and rest, and the mountains as pegs?”

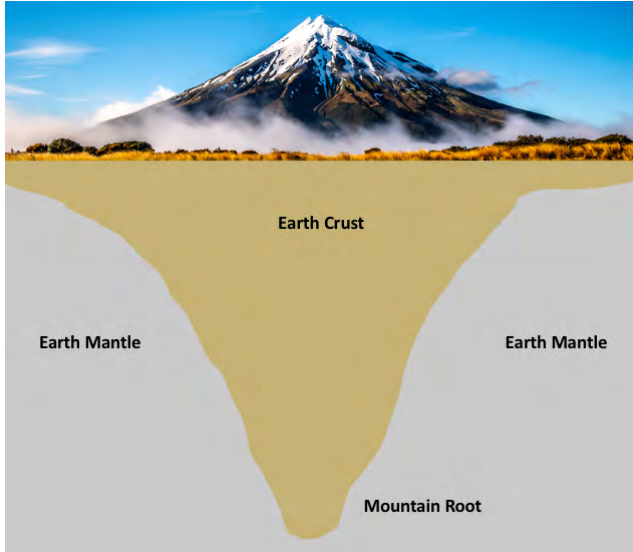
These verses from Surah An-Naba compare mountains to “pegs” or “stakes,” suggesting that the Almighty God, through the mountains stabilizes the Earth. Just as stakes anchor a tent into the ground, keeping it stable, mountains anchor the Earth’s crust, preventing it from shifting excessively. This metaphor aligns remarkably with modern geological discoveries about the function of mountains.

The term “*awtaad*” used in the verse can be translated as “pegs,” which is a good description of how mountains function. The comparison is not merely symbolic but reflects the actual role mountains play in Earth’s geophysical stability.

Relation to the Scientific Fact

Modern geological findings confirm that mountains act as stabilizing structures, with deep roots extending into the Earth’s crust. This supports the metaphor used in the Qur’an, which likens mountains to pegs. The concept of mountains having deep roots and stabilizing the Earth’s crust aligns closely with the description provided in Surah An-Naba.

1. **Mountains as Pegs:** The Qur'an's metaphor of mountains as stakes or pegs corresponds to the understanding that mountains extend far beneath the Earth's surface and act as stabilizers.
2. **Role of Mountains in Stability:** Modern geology confirms that mountains play a crucial role in maintaining the stability of the Earth's crust, preventing drastic shifts in tectonic plates. This function directly corresponds to the meaning of pegs as stabilizers.



The Qur'an's description of mountains as pegs (*awtaad*) in chapter 78 (Surah An-Naba) aligns closely with modern geological findings about the role of mountains in stabilizing the Earth. The concept of deep-rooted mountains, acting like stakes that anchor the Earth's crust, reflects a profound understanding of geology that was only discovered centuries after the Qur'an was revealed. This demonstrates a remarkable harmony between the Holy revelation and contemporary science, showcasing the alignment of revelation and modern scientific discoveries.

More importantly, this underscores that the entire planet's topography is not the product of arbitrary processes but a deliberate manifestation of divine wisdom. The mountains' depth, permanence, and balancing effect testify to Allah's purposeful design and His ongoing governance in sustaining the planet's stability.

The Earth's Protective Shield

Scientific Discovery

Modern scientific understanding of the Earth's atmosphere shows that it acts as a protective shield for life on Earth. It blocks harmful ultraviolet (UV) radiation from the sun, filters solar radiation, and prevents most meteoroids from reaching the Earth's surface by burning them up as they enter the atmosphere. These protective roles were only fully understood in the 20th century, with advancements in atmospheric sciences.

Scientific Facts Related to the Atmosphere's Protective Role

- 1. UV Radiation Protection:** The ozone layer in the Earth's atmosphere absorbs the majority of the sun's harmful ultraviolet rays, which could cause severe harm to living organisms, including skin cancer in humans, if they were allowed to penetrate to the surface of the Earth.
- 2. Meteor Protection:** Meteors, which are small fragments of space debris, burn up upon entering the Earth's atmosphere due to friction, preventing catastrophic impacts.
- 3. Temperature Regulation:** This happens through the atmosphere, which is made to maintain balance in the Earth's temperature, making it habitable by retaining heat through the greenhouse effect and shielding life from extreme fluctuations.

Qur'anic Verse Describing the Sky's Protective Role

In the Qur'an chapter 21, verse 32 (Surah Al-Anbiya) it is stated:

وَجَعَلْنَا السَّمَاءَ سَقْفًا مَحْفُوظًا

And We made the sky a protected canopy

Explanation of the Verse

This verse from the Qur'an describes the sky as a “**protected canopy**”, suggesting that:

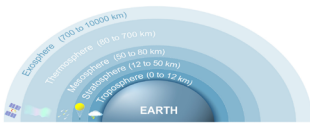
(a) it serves as a shield over the Earth. The Qur'anic phrase “protected canopy” or “safeguarded roof” emphasizes that the sky is not just an empty expanse but Allah, through the layers, is continuously protecting life on Earth. The word “protected” points to its function as a defense mechanism against external harm, such as radiation and meteors. It also emphasizes that this is not just natural but is an intentional act of the Creator.

(b) The Earth's atmosphere with several distinct layers, each purposefully designed and continuously enabled to perform a specific function, is ever stable because it is protected from disintegrating due to space gravitational and magnetic forces.

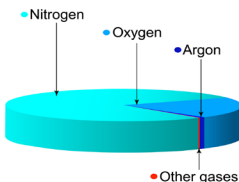
The Qur'anic expression “**we made**” emphasizes that it is not natural, but an intentional act of Allah.

ATMOSPHERE OF EARTH

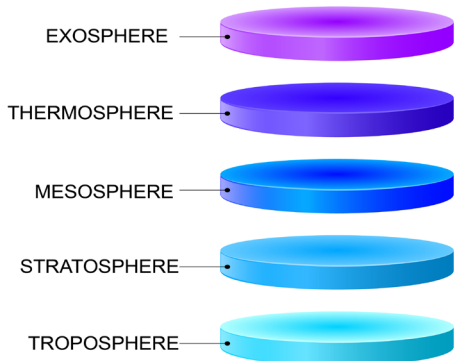
Structure of the atmosphere



Composition of the atmosphere



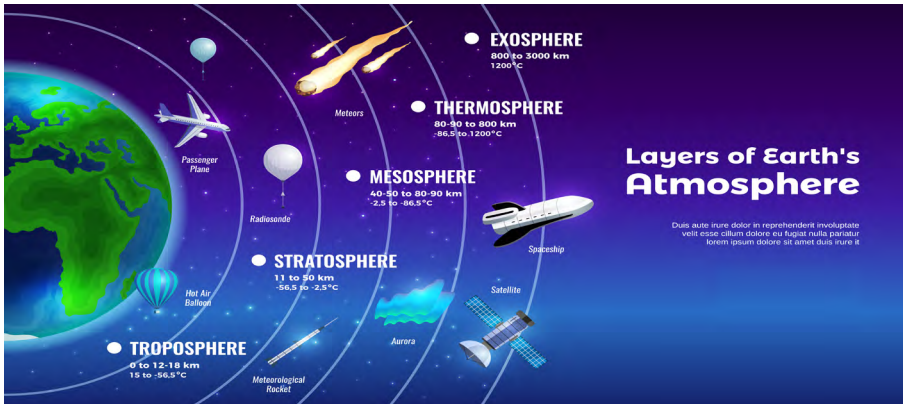
Layers of the atmosphere



Relation to the Scientific Fact

- 1. Blocking Harmful Radiation:** The Qur'an's reference to the sky as a protective canopy closely mirrors the role of the Earth's atmosphere, particularly the **ozone layer**, through which the dangerous UV radiation from the sun are blocked. Without this divinely ordained protection, the conditions necessary for sustaining life on Earth would be impossible.
- 2. Shielding from Space Debris:** Through the atmosphere, meteoroids are burned up as an expression of God's mercy to mankind before they reach the Earth. This aligns with the Qur'anic description of the sky as a "protected canopy." The idea of the sky serving as a shield is remarkably consistent with what modern science observes.
- 3. A Remarkable Alignment:** The fact that this verse was revealed over 1,400 years ago makes the Qur'an's description of the sky's protective functions even more remarkable. It predates the scientific discovery of these atmospheric functions by centuries, highlighting the alignment between the Qur'anic text and modern scientific understanding.

The Qur'anic description of the sky as a **protected canopy** in chapter 21 (Surah Al-Anbiya) resonates with modern discoveries about the Earth's atmosphere. Through it, God shields the Earth against harmful solar radiation, space debris, and extreme temperatures, thus playing a crucial role in preserving life on Earth. This alignment between Qur'anic revelation and scientific facts is yet another example of how the Qur'an speaks to both spiritual and scientific realities.



The Origin of Iron

The origin of iron and its significance in various applications has fascinated scientists and theologians alike. The Qur'an references iron's creation in a way that aligns with contemporary scientific understanding of its cosmic origins.

Scientific Understanding of Iron's Origin

1. Cosmic Formation:

Iron is created in the cores of massive stars during nuclear fusion. When these stars reach the end of their life cycle, they explode in supernova events, dispersing iron and other elements into space. Renowned astrophysicist **Carl Sagan** highlighted the importance of supernovae in distributing elements throughout the universe.

2. Stellar Nucleosynthesis:

Iron is produced through stellar nucleosynthesis, a process that occurs during a star's life and explosive death. Scientists like **J. W. Truran** have contributed to understanding how elements are synthesized in stars.

3. Terrestrial Sources:

On Earth, iron is primarily obtained from iron ore. It is a critical component in construction, manufacturing, and various industries, underscoring its importance in human civilization.

Qur'anic Perspective on Iron's Origin

1. In Chapter 57, Verse 25 (Surah Al-Hadid) it is stated:

وَأَنْزَلْنَا الْحَدِيدَ فِيهِ بَأْسٌ شَدِيدٌ وَمَنْفَعٌ لِلنَّاسِ

And We sent down iron, wherein is strong material, as well as many benefits for mankind.

2. Significance of Iron:

Qur'an indicates that iron has strong material properties and many benefits for humanity, alluding to its versatility and importance in various applications, including construction and tools.

Conformity with Modern Science

1. Creation in Stars:

The Qur'an's mention of iron being 'sent down' is a clear reference to its cosmic origin from supernovae. This aligns with the scientific understanding that elements heavier than carbon, including iron, are produced in the extreme conditions of stellar explosions.

2. Utility for Humanity:

The description of iron as having "strong material" properties aligns with modern applications in construction, infrastructure, and technology, reinforcing its essential role in human progress.

Scientific Fact and Qur'anic Description

The alignment between the Qur'anic reference to iron and modern scientific understanding of its origins and utility highlights a remarkable correspondence between the Qur'an and contemporary knowledge. The recognition of iron's significance in both contexts reflects an understanding of its role in the physical universe and human society, emphasizing the profound wisdom inherent in the Qur'an's teachings.

The remarkable strength of iron is no mere coincidence; it is a direct result of its intricate atomic structure, meticulously designed and perpetually upheld by the one true Creator



Zoology



Wildebeests crossing Mara river. The Great Migration in Kenya & Tanzania

The Bee in the Qur'an

Scientific Development in the Subject

Before modern research into animal behavior, the intricacies of how bees communicated, navigated, and constructed their hives remained largely unknown. It was only with the development of ethology (the study of animal behavior) and the work of renowned scientists that these mysteries began to be understood.

One of the most significant discoveries in bee behavior came in 1945, when **Karl von Frisch**, an Austrian ethologist, discovered the “waggle dance” of bees. Through this form of communication, bees convey critical information about the location, distance, and direction of food sources to other members of the hive. Von Frisch’s discovery revealed that bees have an advanced social structure and an innate ability to navigate and communicate.

Further studies in entomology also revealed that in a bee colony, the worker bees, responsible for collecting nectar and building the hive, are female, an essential fact in understanding the gender roles in bee societies. These discoveries, which emerged in the 20th century, shed light on the sophisticated and organized nature of bee life.³

Scientific Facts Relating to Bees

- ✿ **Waggle Dance:** Bees communicate the distance and direction of food sources through a sophisticated dance known as the “waggle dance.” It is through this dance, that other bees know the exact coordinates of where to find nectar.
- ✿ **Female Worker Bees:** The worker bees in a hive are all female. They are responsible for gathering food, protecting the hive, and building honeycombs.

3. **Other Scientists in the Field include Karl von Frisch** (1886–1982): Discovered the “waggle dance,” a communication method used by bees to relay the location of food sources, **Maurice Maeterlinck** (1862–1949): Belgian playwright and essayist who wrote extensively on the behavior of bees in his book *The Life of the Bee*

❁ **Inspired Behavior:** Bees exhibit highly instinctual behavior, including the construction of hexagonal hives and the coordination of hive activities, which are necessary for the survival of the colony.

Qur'anic perspective:

In the Qur'an chapter 16, verses 68-69 it is stated:

وَأَوْحَىٰ رَبُّكَ إِلَى النَّحْلِ أَنِ اتَّخِذِي مِنَ الْجِبَالِ بُيُوتًا وَمِنَ الشَّجَرِ
وَمِمَّا يَعْرِشُونَ ﴿٦٨﴾ ثُمَّ كُلِي مِن كُلِّ الثَّمَرَاتِ فَاسْلُكِي سُبُلَ
رَبِّكَ ذُلُلًا

*And thy Lord taught the bee to build its cells in hills, on trees, and in
(men's) habitations; Then to eat of all the produce (of the earth), and
follow the ways of thy Lord made smooth.*

Explanation of the Verses

These verses draw attention to the remarkable behavior and divinely inspired activity of bees. The bees are described as building their hives in mountains, trees, and human constructions, and are instructed to gather their nourishment from the fruits and vegetation provided for them. The command to “follow the ways of your Lord made smooth” signifies that their navigational precision and foraging abilities are not the result of random instinct but manifestations of divine guidance instilled within them.

Interestingly, the Quran deliberately employs the feminine form of the verb when addressing the bees. In Arabic, gendered verbs are used depending on the subject, and the use of the feminine form here is a clear indication that the worker bees being referred to are female - an observation that modern science has confirmed, as it is the female worker bees who perform these tasks in a hive.



Relation to the Scientific Fact

1. **Bee Communication (Waggle Dance):** The Qur'an's mention of bees following specific pathways aligns with the discovery of the "waggle dance." Through this dance, bees communicate directions and distances to food sources, reflecting the Qur'an's statement about bees following a divinely guided path.
2. **Female Worker Bees:** The Qur'an's use of the feminine form when describing bees corresponds with the modern discovery that the worker bees, who build the hive, gather nectar, and protect the colony, are all female.
3. **Inspired Behavior:** The Qur'anic verses speak of God's inspiration guiding bees to construct hives and collect food. This parallels the modern understanding of inspired behavior in animals, particularly in bees, who follow complex patterns of hive construction and social organization without prior learning, which is indeed continuous divine inspiration.

The Qur'an's description of bee behavior in the Qur'an chapter 16 (Surah An-Nahl) presents a profound insight into the physical universe, centuries before modern science uncovered the details. The verses describe the worker bees, their gender, and their inspired navigation and hive-building behaviors. These descriptions revealed over 1,400 years ago, are in remarkable alignment with what scientists like Karl von Frisch discovered in the 20th century. Once again, the harmony between the Qur'an and modern science is evident, showing that divine revelation has anticipated scientific discoveries by centuries and confirming that all behavior and order in the animal kingdom proceed by Allah's constant command.



Life of a bee colony. The queen (apis mellifera) marked with dot and bee workers around her.

Animal Communities

Scientific Discovery

Modern zoology has revealed that many animal species live in structured communities and exhibit **social behaviors** and **hierarchies**. Research into the social lives of animals shows that ants, bees, birds, mammals, and many other creatures organize themselves into societies, each with specific roles and complex social systems. This includes communication methods, division of labor, hierarchical structures, and cooperative behaviors to flourish. Such findings have confirmed the structured *fitrah* (intuition) of animal communities.

Scientific Facts Related to Animal Communities

- ❁ **Ants and Bees:** Insect communities, like ants and bees, have complex social structures, including a division of labor where each member has a specific role, such as foraging, defending, or caring for the young.
- ❁ **Birds:** Many bird species demonstrate hierarchical structures, where dominant individuals lead flocks, and these communities work together for tasks like migration, hunting, and raising offspring.
- ❁ **Mammals:** Mammalian species such as wolves, elephants, and primates live in highly organized groups, with social bonds, cooperation, and even emotional connections among members.

Qur'anic Perspectives on Animal Communities

In the Qur'an chapter 6, verse 38 (Surah Al-An'am) it is stated:

وَمَا مِنْ دَابَّةٍ فِي الْأَرْضِ وَلَا طَائِرٍ يَطِيرُ بِجَنَاحَيْهِ إِلَّا أُمَمٌ أَمْثَالُكُمْ

There is not an animal that lives on the Earth, nor a being that flies on its wings, but forms communities like you.

Explanation of the Verse

This verse from the Qur'an explains that animals, like humans, form communities and live within structured social systems. The Qur'anic reference to "communities like you" suggests a similarity between human and animal social structures, acknowledging that all creatures are part of their own unique societies. The verse emphasizes the organized nature of animal life, with animals living in groups, interacting, and cooperating to survive, much like human societies.

Relation to the Scientific Fact

- 1. Animal Social Structures:** The Qur'an's description of animals forming communities aligns with **modern zoological discoveries**. Animals, from tiny insects like ants to large mammals like elephants, exhibit structured behavior within groups. The sophisticated social systems seen in these creatures include communication, mutual cooperation, role assignment, and care for the young. The Qur'an's recognition of these structured animal societies parallels what modern zoology has uncovered about the intricate social life of animals.
- 2. Communication and Hierarchies:** Animal communities demonstrate behaviors that reflect levels of communication and hierarchies, which are essential for flourishing. For example, wolves have pack leaders who guide their hunts and social interactions. These behaviors mirror what the Qur'an mentions about animals having organized, purposeful lives within their communities.
- 3. Equality in Existence:** The verse highlights that animals, though different from humans in many ways, share the experience of living in **communities**. This idea, which is over 1,400 years old, is a profound reflection of what science today has confirmed through observation and research, showcasing the Qur'an's remarkable alignment with modern understanding of animal behavior.

The Qur'anic description of animal communities in chapter 6 (Surah Al-An'am) aligns with contemporary scientific findings in zoology, which confirm that animals live in organized and structured societies with roles, hierarchies, and cooperative behaviors. The verse provides an insightful look into the nature of animal life, which parallels human social structures, and highlights the deep connection between Qur'anic wisdom and modern scientific discoveries and confirming that all creatures operate under the continuous guidance and decree of Allah.



The core of elephant society is the family unit, which mostly comprises several adult cows, their daughters and their sons. The family unit is led by a matriarch who at times also leads the kinship group. Groups cooperate in locating food and water, in self-defense, and in caring for offspring. Elephants communicate via touching, visual displays, vocalizations, seismic vibrations, and via secretion of semiochemicals such as feces and urine.

The Production of Milk

Scientific Discovery

The process by which milk is created in mammals involves the digestive system. Food is digested in the stomach, absorbed by the intestines, and from there, nutrients are transferred into the bloodstream. The mammary glands then extract nutrients like water, fat, and proteins from the bloodstream to be used in the creation of milk.

Qur'anic Verses Describing Milk Production

In the Qur'an chapter 16, verse 66 (Surah An-Nahl) it is stated:

وَإِنَّ لَكُمْ فِي الْأَنْعَامِ لَعِبْرَةً نُّسْقِيكُم مِّمَّا فِي بُطُونِهِمْ مِنْ بَيْنِ فَرْثٍ وَدَمٍ
لَبَنًا خَالِصًا سَائِغًا لِلشَّارِبِينَ

And indeed, for you in grazing livestock is a lesson. We give you drink from what is in their bellies, between excretions and blood - pure milk, palatable to drinkers.

And in chapter 23, verse 21 it is further stated:

وَإِنَّ لَكُمْ فِي الْأَنْعَامِ لَعِبْرَةً نُّسْقِيكُم مِّمَّا فِي بُطُونِهَا وَلَكُمْ فِيهَا مَنفَعٌ
كَثِيرَةٌ وَمِنْهَا تَأْكُلُونَ

And indeed, for you in livestock is a lesson. We give you drink from what is in their bellies, and for you in them are numerous benefits, and from them you eat.

Explanation of the Verses

The Qur'an mentions that milk is given to us through the **belly of livestock**, originating between **excretions (intestines)** and **blood**. The verses precisely describe the scientific process of milk production, involving the digestive system and the bloodstream, from which nutrients are absorbed and used to produce milk.

Relation to the Scientific Fact

- 1. Role of Digestion and Blood in Milk Production:** Modern science confirms that milk production occurs through the **extraction of nutrients** from the blood, which itself absorbs these nutrients after food is digested. The Qur'an's description of milk being given to us through **excretions** (digested food) and **blood** directly correlates with this scientific understanding of how nutrients from digested food are transported via the bloodstream to become milk by the Creator's continuous involvement.
- 2. Purity of Milk:** The verses highlight the **purity** of milk, stating it is "wholesome" and "palatable." This aligns with the fact that **milk**, while produced through a complex biological process involving blood and digested food managed by the Creator, is a **pure, uncontaminated** liquid, safe for human consumption.

Historical Context: At the time of the Qur'an's revelation, the biological details of milk production were unknown. The precision of these verses, describing milk being produced between **digestion** and **blood**, highlights the Qur'an's alignment with scientific facts that were discovered only many centuries later through modern biology.

The Qur'an's references to milk production in Sūrat al-Nahl (16:66) and Sūrat al-Mu'minūn (23:21) show a striking **alignment** with contemporary scientific knowledge. These verses draw attention to the remarkable process by which livestock, through the digestion of fodder, produce three distinct outcomes: blood, waste, and pure milk - each entirely different in nature, composition, and function. From the same ingested material emerge substances that are impure and discarded, alongside milk that is wholesome, nourishing, and distinct in both color and form. The Qur'an thus presents this process not merely as a biological phenomenon, but as a continual sign of divine wisdom and power, manifest daily before human observation.



From a humble beginning in the belly of a cow, the milk sustains a huge dairy industry that produces a variety of dairy products.

Communication of Ants

Scientific Discovery

In 1974, the phenomenon of **ant communication** was observed and confirmed through research by entomologist E.O. Wilson. Ants use a sophisticated system of **chemical signals (pheromones)** and **auditory signals** to convey information about food sources, danger, and colony tasks. More recently, scientists have also observed ants engaging in complex **social behaviors**, including warning other members of their group and **collaborating** to overcome obstacles.

Qur'anic statement on the subject

In the Qur'an chapter 27, verse 18 (Surah An-Naml) it is stated:

حَتَّىٰ إِذَا أَتَوْا عَلَىٰ وَادِ النَّمْلِ قَالَتْ نَمْلَةٌ يَا أَيُّهَا النَّمْلُ ادْخُلُوا
مَسْكِنَكُمْ لَا يَحْطِمَنَّكُمْ سُلَيْمَانُ وَجُنُودُهُ وَهُمْ لَا يَشْعُرُونَ

Until, when they came upon the valley of the ants, an ant said, 'O ants, enter your dwellings that you may not be crushed by Solomon and his soldiers while they perceive not.'



Explanation of the Verse

This verse describes a detailed account of **communication among ants** when **Prophet Solomon's** army was approaching. One ant acts as a **sentinel**, warning its colony to retreat into their homes to avoid being crushed by the soldiers unintentionally. The verse not only indicates that ants communicate, but it also describes **warning behavior** and **social cooperation**, which is consistent with **modern findings**.

Relation to the Scientific Fact

- 1. Complex Communication System:** Recent studies have confirmed that ants use **vocal and chemical signals** to communicate intricate information. The Qur'an's description of one ant calling out to others, urging them to retreat, mirrors scientific observations of **alarm calls** and **group signaling** in ant communities.
- 2. Social Organization:** Through the intended design by the Creator, ants exhibit a high degree of **social organization** with clear roles, such as foragers, soldiers, and sentinels, as suggested in the verse. The presence of a **warning system** in the verse aligns with what scientists have found about the **division of labor** and **responsiveness** in ant societies.
- 3. Perception of Danger:** The verse highlights the ant's God's given knowledge to **perceive danger** and respond accordingly. This reflects the findings in behavioral ecology, which show that ants possess an advanced **social intelligence** that guides their actions and ensures the survival of the colony.

The Qur'an's reference to **ant communication** in chapter 27 (Surah An-Naml) aligns with the modern understanding of ant behavior and communication. The intricate social organization, warning signals, and cooperative behaviors observed by entomologists echo the **precise description** found in the Qur'an, revealed over 1,400 years ago. This provides yet another instance of the **Qur'an's alignment** with scientific realities that were only discovered centuries later. It emphasizes that even the tiniest creatures follow Allah's decreed systems for mutual survival and organization.



Ant bridge unity team

Medicine

Pharmacology



Herbal medicine or traditional medicine, also called botanical medicine or phytomedicine, refers to using a plant's seeds, berries, roots, leaves, bark, or flowers for medicinal purposes. Herbalism has a long tradition of use outside conventional medicine. Written evidence of herbal remedies dates back over 5,000 years to the Sumerians who compiled lists of plants. In ancient Egypt, herbs were mentioned in Egyptian medical papyri depicted in tomb illustrations, or on rare occasions found in medical jars containing trace amounts of herbs.

Healing Properties of Honey

Scientific Development in the Subject

Honey has been used as a traditional remedy for centuries, but modern research has confirmed its medicinal properties through extensive studies. Scientific investigations have highlighted honey's antibacterial, anti-inflammatory, and antioxidant effects, making it an effective treatment for wounds, infections, and various health issues. Through honey tissue regenerate, harmful bacteria die, and inflammation reduces, particularly through its components like hydrogen peroxide, methylglyoxal, and bee-derived peptides.

In modern medicine, honey has been applied to treat burns, ulcers, infections, and respiratory conditions. **Manuka honey**, a specific type known for its high medicinal potency, has gained particular recognition for its superior antibacterial properties.⁴

Scientific Facts Relating to Honey

- ⚙️ **Antibacterial Effects:** Honey through its properties inhibits the growth of bacteria like *Staphylococcus aureus* and *Escherichia coli*, this is related to its hydrogen peroxide content.
- ⚙️ **Wound Healing:** Honey promotes healing by maintaining a moist environment and acting as a barrier against infections. It also accelerates the regeneration of tissue.
- ⚙️ **Anti-inflammatory and Antioxidant Properties:** Honey helps reduce inflammation and oxidative stress, which are linked to various chronic diseases.

Qur'anic perspective in the Healing Properties of Honey:

In the Qur'an chapter 16, verse 69 it is stated:

4. **Scientists in the Field include Peter Molan** (1943–2015): A biochemist known for his work on Manuka honey and its powerful healing properties and **David W. Nahrwold, M.D.:** His research highlighted the antibacterial properties of honey in wound care.

ثُمَّ كُلِي مِنْ كُلِّ الثَّمَرَاتِ فَاسْلُكِي سُبُلَ رَبِّكِ ذُلَالًا يَخْرُجُ مِنْ
بُطُونِهَا شَرَابٌ مُخْتَلِفٌ أَلْوَانُهُ فِيهِ شِفَاءٌ لِلنَّاسِ إِنَّ فِي ذَلِكَ
لَآيَةً لِقَوْمٍ يَتَفَكَّرُونَ

Then eat from all the fruits and follow the ways of your Lord laid down. There emerges from their bellies a drink, varying in colors, in which there is healing for people. Indeed, in that is a sign for a people who give thought.

Explanation of the Verse

This verse from chapter 16 of the Qur'an (Surah An-Nahl) highlights the medicinal and healing properties available through honey, calling attention to the purpose of its divine creation. The phrase “drink, varying in colors” refers to the diversity of honey, as its color and properties can differ depending on the source of nectar. More importantly, the verse explicitly mentions that through honey one will achieve healing properties for humans, aligning perfectly with the modern understanding of honey’s uses as antibacterial, anti-inflammatory, and antioxidant.

Relation to the Scientific Fact

1. Healing and Antibacterial Properties and Anti-inflammatory Effects:

The Qur’anic verse speaks of honey as a means for healing, which modern science confirms. Through Honey’s antibacterial effects wounds and infections are treated. Through it bacteria is killed and faster healing is promoted, which directly supports the claim of “healing for people” mentioned in the verse. The Qur’an’s recognition of honey’s healing properties also aligns with modern findings that honey has been given the capacity to reduce inflammation and to soothe various conditions, including burns and ulcers.

2. Wound Healing and Tissue Regeneration:

Through honey, the Creator heals and regenerates tissue making one of its most significant medicinal benefits. The Qur’an’s description of honey containing healing properties prefigures this modern discovery, showing that its medicinal benefits were acknowledged long before scientific validation.

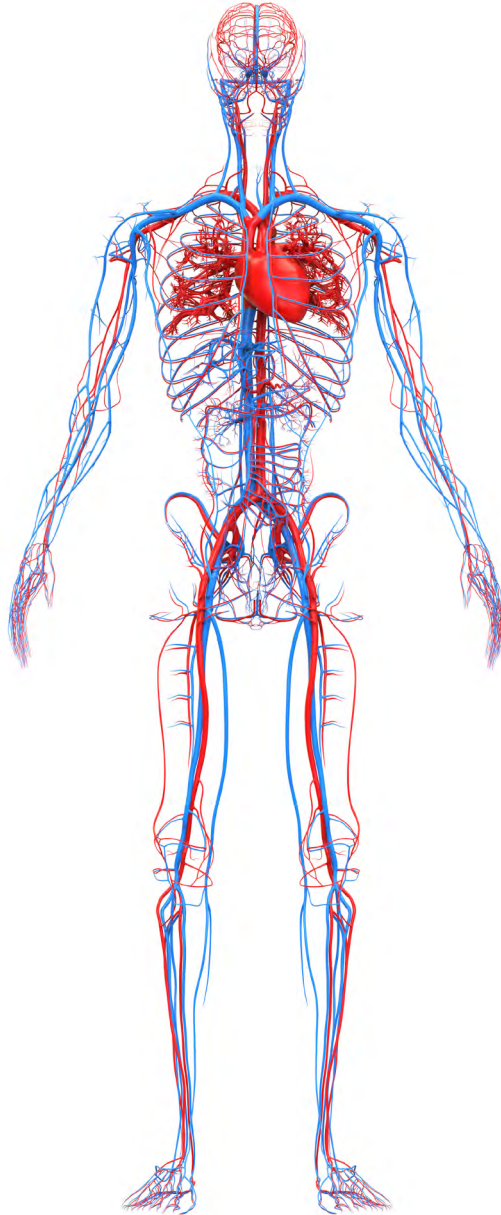
The Qur'an's reference to the healing properties of honey in Sūrat al-Nahl (16:69) shows a clear alignment with contemporary scientific findings. Modern research has demonstrated that honey possesses antibacterial, anti-inflammatory, and wound-healing properties - facts well documented in medical literature today, yet pointed to in revelation more than fourteen centuries ago. This alignment highlights the enduring relevance of the Qur'an and its coherence with the observable order of the natural world.

At the same time, the Qur'anic perspective makes clear that healing does not reside in honey as an independent cause. Rather, its beneficial effects occur only by the will of God, for true healing ultimately belongs to Him alone. Honey thus functions as a means endowed with benefit, a manifestation of divine wisdom through which Allah grants health and recovery. In this way, the Qur'an affirms through His creation, God remains actively present as the true source behind every stage of healing.



*Jars of different honey varieties, each variety has a different medicinal characteristic. These varieties are determined by the type of flowers from which the bees collect the nectar. For example, Manuka honey comes from the nectar of the mānuka tree, *Leptospermum scoparium*.*

Physiology



Human Circulatory System and Heart Anatomy

Hearts Intrinsic Brain

Scientific Discovery

In 1991, **Dr. J. Andrew Armour** discovered that the heart contains its own independent nervous system, often referred to as the **intrinsic cardiac nervous system** or the heart's "little brain." This system consists of approximately 40,000 neurons that are capable of complex processes like those found in the brain. The discovery revealed that, through the heart information can be processed, learned, remembered, and communicated with the brain, influencing emotions and cognitive functions.

Scientific Facts Relating to the Heart's Intrinsic Brain

- ❁ **Heart-Brain Connection:** The intrinsic cardiac nervous system has been given the ability to operate independently of the brain and through it, emotional and intuitive signals can be transmitted to the central nervous system, impacting decision-making, emotional regulation, and even reasoning.
- ❁ **Neural Network in the Heart:** This neural network acts as a relay system, made capable of receiving and interpreting signals from the brain, as well as sending information back to it.

Qur'anic Verse Describing the Cognitive Functions of the Heart

In the Qur'an chapter 22, verse 46 (Surah Al-Hajj) it is stated:

أَفَلَمْ يَسِيرُوا فِي الْأَرْضِ فَتَكُونَ لَهُمْ قُلُوبٌ يَعْقِلُونَ بِهَا أَوْ
أَذَانٌ يَسْمَعُونَ بِهَا فَإِنَّهَا لَا تَعْمَى الْأَبْصَارُ وَلَكِن تَعْمَى
الْقُلُوبُ الَّتِي فِي الصُّدُورِ

So have they not traveled through the Earth and have hearts by which to reason and ears by which to hear? For indeed, it is not eyes that are blinded, but blinded are the hearts which are within the breasts.

Explanation of the Verse

This verse emphasizes the cognitive and emotional roles of the heart, which seems to suggest that the heart can be made to play a role in reasoning, wisdom, and understanding - functions traditionally attributed to the brain. The Qur'an's description of the heart as having been designed to contain the attribute of "reason" (بِعَقْلُونَّ) aligns with the scientific discovery that the heart has its own neural system capable of processing and communicating information. The verse underscores that blindness is not of the eyes, but of the heart's ability to be used as agent for understanding, hinting at a deeper connection between the heart and consciousness.

Relation to the Scientific Fact

- 1. Cognitive Functions of the Heart:** The Qur'an's depiction of the heart as a center for wisdom and reasoning aligns with **modern neurocardiology**, which has uncovered the heart's brain and through it, emotions, cognitive functions, and decision-making can be influenced. This neural network allows the heart to support processing of information and communicate with the brain, lending scientific credibility to the Qur'an's description of the heart's non-physical roles.
- 2. Emotional and Intuitive Signals:** The Qur'anic verse resonates with the discovery that the heart is involved in **emotional intelligence**, not just as a metaphorical or spiritual concept but as a physical reality, with the heart sending intuitive signals to the brain. The heart's communication system reveals a profound connection between the heart and human consciousness, aligning with the Qur'an's emphasis on the heart as an instrument of moral and spiritual perception.
- 3. Blindness of the Heart:** The Qur'an's metaphor that the **heart** can be "blinded" refers to a lack of understanding and wisdom. In the light of modern findings, this can be interpreted not just as spiritual blindness but also as the heart's neural system being disconnected from higher cognitive and emotional reasoning, reinforcing the Qur'an's profound message about the heart's role in human comprehension.

The Qur'an's depiction of the heart as having been given cognitive and emotional functions finds a striking correlation with the modern scientific discovery of the heart's intrinsic brain. This neural system allows the heart to process information, which aligns with the Qur'an's view of the heart as central to reasoning and understanding. The fact that such a complex relationship between the heart and mind was alluded to over 1,400 years ago is a remarkable example of the alignment between Qur'anic revelation and contemporary science. The alignment of neurocardiology with the Qur'anic portrayal of the heart's deeper functions further confirms that human physiology operates under a sophisticated, divinely authored design - transcending mere mechanical processes.



The brain and the heart are two parallel minds in the human body. Though they are each a unique organ, they complement each other in human reasoning, wisdom, understanding and decision making.

Pain Receptors in the Skin

Scientific Discovery

In the 20th century, scientists discovered that **pain receptors** are located in the skin. These nerve endings, known as **nociceptors**, detect harmful stimuli such as heat, cold, and mechanical damage, sending signals to the brain to perceive pain. If these receptors are destroyed or damaged, an individual may lose the ability to feel pain.

Professor Dr. Tagatat Tejasen is a professor at the University of Chiang Mai in Thailand who is specialized in **anatomy** and **pain receptors**. After researching the Qur'an's verses about pain receptors, he acknowledged the accuracy of the Qur'an in describing how the skin functions in pain perception. Tejasen stated that this knowledge could not have been known at the time of the Qur'an's revelation unless it came from divine knowledge. His reflections have been widely cited as an example of modern scientists acknowledging the **scientific accuracy** found in the Qur'an.

Qur'anic Statement on the subject

In the Qur'an chapter 4, verse 56 (Surah An-Nisa'a) it is stated:

إِنَّ الَّذِينَ كَفَرُوا بِآيَاتِنَا سَوْفَ نُصَلِّبُهُمْ نَارًا كُلَّمَا نَضِجَتْ
جُلُودُهُمْ بَدَّلْنَاهُمْ جُلُودًا غَيْرَهَا لِيَذُوقُوا الْعَذَابَ إِنَّ اللَّهَ
كَانَ عَزِيزًا حَكِيمًا

Those who reject Our signs, We shall soon cast them into the Fire. As often as their skins are roasted through, We shall change them for fresh skins, so that they may taste the penalty: for Allah is Exalted in Power, Wise,

Explanation of the Verse

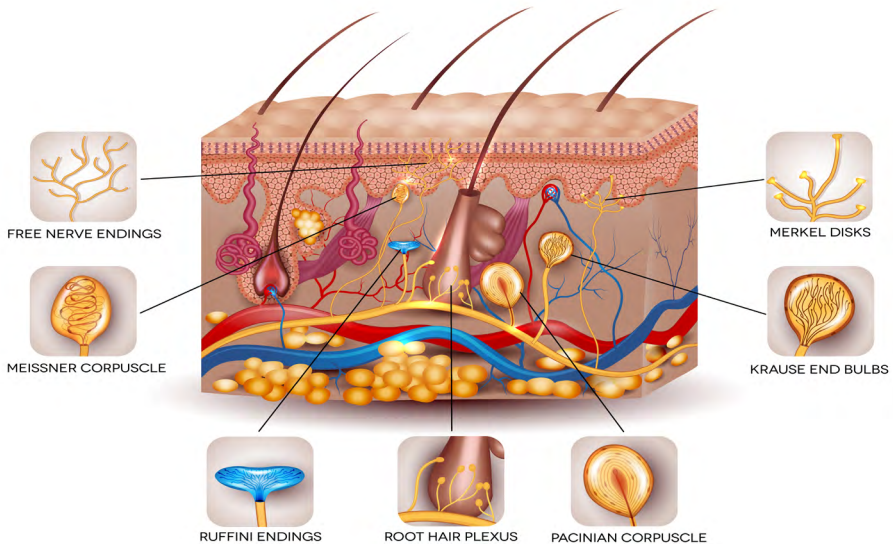
This verse describes the punishment of those who reject divine signs. It indicates that when the **skin is burned**, new skin is replaced so that the **sensation of pain** can continue. The verse's emphasis on the role of skin in perceiving pain is a concept that modern science has only lately uncovered with the discovery of pain receptors in the skin.

Relation to the Scientific Fact

- 1. Role of Skin in Feeling Pain:** Modern science explains that the skin contains specific **pain receptors (nociceptors)** that are essential for perceiving pain. When these receptors are damaged or destroyed, pain sensation is lost. The Qur'an's reference to skin being replaced so that the person may "taste the penalty" directly aligns with this understanding of pain receptors in the skin.
- 2. Alignment with Modern Science:** The Qur'an's insight into the relationship between **skin and pain perception** was revealed over 1,400 years ago, long before this was understood scientifically. It demonstrates an understanding of the God-given physiological role of the skin in transmitting sensations like pain, discovered by scientists only in recent times.

The Qur'an's mention of skin being central to feeling pain in chapter 4 (Surah An-Nisa) corresponds with the discovery of pain receptors in modern science. Professor Tagatat Tejasen's research into this matter highlights the Qur'an's remarkable accuracy in describing aspects of human physiology that were unknown to humans at the time of its revelation, further supporting the argument of its divine origin.

SENSORY RECEPTORS IN SKIN



Individual Fingerprints

The concept of individual fingerprints has significant implications in both forensic science and the understanding of human identity. The Qur'an mentions the uniqueness of individuals in a manner that aligns remarkably with contemporary scientific findings about fingerprinting.

Scientific Understanding of Fingerprints

1. Unique Identifiers:

Fingerprints are unique to each individual, formed in the womb. No two fingerprints are alike, making them an essential tool in forensic science for identification and criminal investigations.

2. Dermatoglyphics:

The study of fingerprints, known as dermatoglyphics, examines the patterns on the skin, including loops, whorls, and arches. These patterns are established early in fetal development and remain unchanged throughout a person's life.

3. Forensic Applications:

Fingerprint analysis is widely used in law enforcement and security. The uniqueness of fingerprints allows for accurate identification, making them a reliable method for confirming identities in various legal contexts.

4. Technological Advances:

Modern technology has enhanced fingerprint recognition systems, including biometric scanners used in smartphones, security systems, and border control.

Qur'anic Perspective on Individual Fingerprints

1. In Chapter 75, Verses 3-4 (Surah Al-Qiyamah) it is stated:

أَيَحْسَبُ الْإِنْسَانُ أَنْ نَتَّجِعَ عِظَامَهُ، ﴿٣﴾ بَلَىٰ قَدَرِينِ عَلَيَّ أَنْ تُسَوِّىَ بَنَانَهُ، ﴿٤﴾

Does man think that We will not assemble his bones? Yes. We are Able to proportion even his fingertips.

This verse suggests a profound understanding of individual identity, emphasizing that God (Allah) can not only resurrect humans but also restore their unique features, including their fingertips.

2. Significance of Fingerprints:

The mention of “fingertips” highlights the uniqueness of individuals, aligning with the modern scientific understanding that each person has distinct fingerprints that serve as identifiers. This reflects an early recognition of human individuality and the complexity of identity. This uniqueness of fingerprints shows infinite knowledge and power of God.

Conformity with Modern Science

1. Uniqueness and Identity:

The Qur'an's reference to fingertips resonates with the scientific knowledge that no two fingerprints are identical. This parallel emphasizes the significance of individual identity both in a spiritual and scientific context.

2. Biological Basis:

Modern science claims the formation of fingerprints through biological processes. The Qur'an acknowledges the importance of these unique identifiers, however, it links this physical attributes of individuals to divine creation.

3. Implications for Resurrection:

The verse underscores the belief in resurrection, where the restoration of an individual's physical form, including unique features like fingerprints, reinforces the concept of personal identity in the afterlife.

Scientific Fact and Qur'anic Description

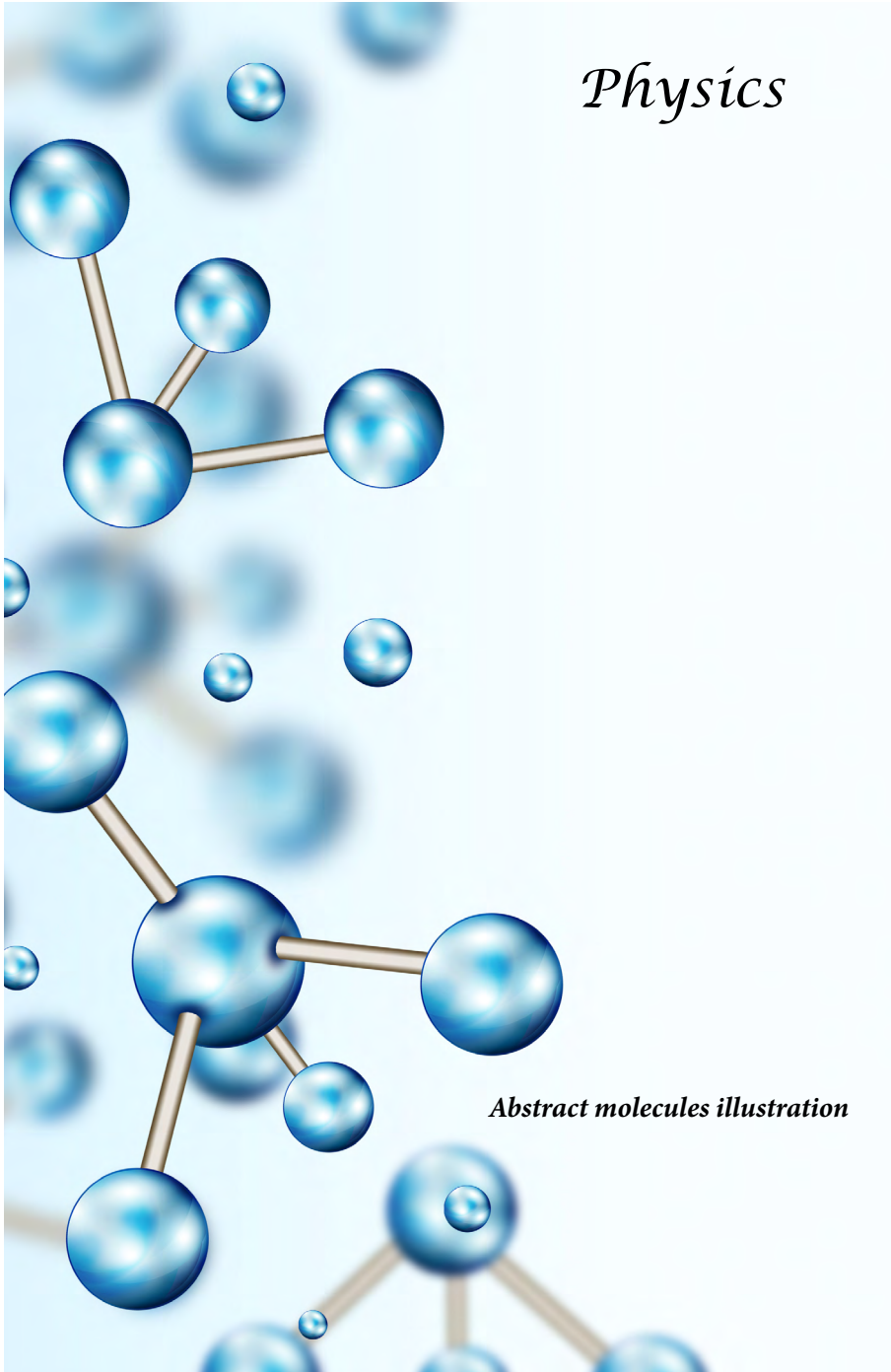
The Qur'anic description of individual fingerprints aligns closely with contemporary scientific findings regarding their uniqueness and the role they play in identifying individuals. This intersection of spiritual belief and scientific understanding provides profound insights into the nature of human identity and the intricacies of creation.

By drawing attention to the significance of fingerprints, the Qur'an affirms that divine knowledge encompasses every facet of human existence, down to the minutest features that distinguish each individual. Such precision underscores that human identity is not the product of chance or blind natural processes, but the result of the Creator's deliberate design, whose wisdom extends to every detail of creation.



Digital fingerprint identification and binary code. Fingerprints now provide security and access in many applications, e.g. in mobile devices and equipment.

Physics



Abstract molecules illustration

Subatomic Particles

The discovery and study of subatomic particles have greatly expanded our understanding of the universe. These fundamental particles make up all matter and are a cornerstone of modern physics. The Qur'an contains verses that allude to the complexity of creation, resonating with concepts explored in particle physics.

Scientific Understanding of Subatomic Particles

Basics of Particle Physics:

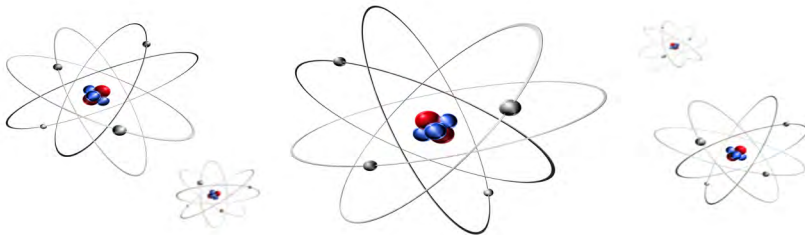
Subatomic particles, including protons, neutrons, and electrons, are the fundamental components of atoms. Scientists such as Niels Bohr and Richard Feynman have significantly contributed to our understanding of these particles' structure and behavior.

Qur'anic Perspective on Subatomic Particles

1. Chapter 10, Verse 61 (Surah Yunus):

وَمَا يَعْزُبُ عَنْ رَبِّكَ مِنْ مِّثْقَالِ ذَرَّةٍ فِي الْأَرْضِ وَلَا فِي
السَّمَاءِ وَلَا أَصْغَرَ مِنْ ذَلِكَ وَلَا أَكْبَرَ إِلَّا فِي كِتَابٍ مُبِينٍ

*Not absent from your Lord is anything even as small as an atom,
within the Earth or in the heavens, nor smaller nor greater than
that but it is (written) in a clear record.*



2. Chapter 34, Verse 3 (Surah Saba):

وَقَالَ الَّذِينَ كَفَرُوا لَا تَأْتِينَا السَّاعَةُ قُلْ بَلَىٰ وَرَبِّي لَتَأْتِيَنَّكُمْ
عِلْمُ الْغَيْبِ لَا يُعْزِبُ عَنْهُ مِثْقَالُ ذَرَّةٍ فِي السَّمَوَاتِ وَلَا فِي الْأَرْضِ
وَلَا أَصْغَرُ مِنْ ذَلِكَ وَلَا أَكْبَرُ إِلَّا فِي كِتَابٍ مُّبِينٍ

But those who disbelieve say, 'The Hour will not come to us.' Say, 'Yes, by my Lord, it will surely come to you. [He is] the Knower of the unseen.' Not absent from Him is an atom's weight within the heavens or within the Earth or [what is] smaller than that or greater, but it is in a clear register.

Conformity with Modern Science

1. Recognition of Subatomic Structure:

These Qur'anic verses emphasize that nothing, not even something as small as an atom (and even smaller), escapes divine knowledge. This reflects the concept in modern science of how subatomic particles, which were not known during the time of the Qur'an's revelation, form the smallest building blocks of matter.

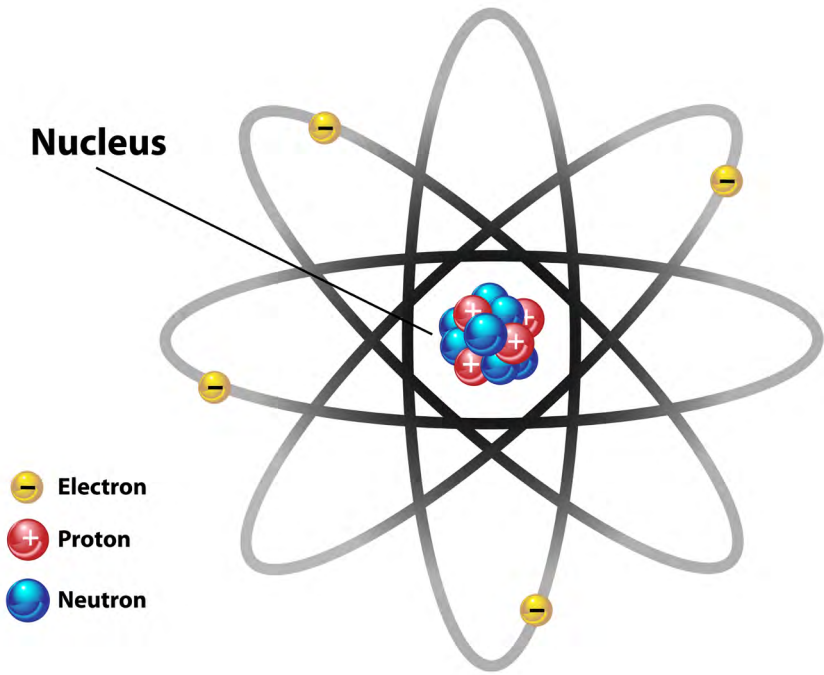
2. Understanding Beyond Physical Observation:

The Qur'an's emphasis on the knowledge of the smallest entities, including those smaller than atoms, aligns with modern discoveries about subatomic particles and quantum mechanics, showing a striking resonance between scripture and science.

Scientific Fact and Qur'anic Description

The alignment of Qur'anic references with modern scientific discoveries regarding subatomic particles illustrates a profound connection between spiritual insight and empirical knowledge. The exploration of these fundamental components of matter not only deepens our understanding of the universe but also underscores the wisdom expressed in the Qur'an, affirming the interconnectedness of all things in creation.

In summary, both scientific exploration and Qur’anic teachings highlight the significance of subatomic particles as essential components of matter, reflecting a shared acknowledgment of the complexity and unity within creation. Every subatomic entity moves by divine will, further underscoring the limitless knowledge and power of the Creator. .



A microscopic image of several chromosomes, appearing as thick, intertwined, blue-tinted structures. The chromosomes are arranged in a complex, branching pattern, with some showing distinct centromeres. The background is a soft, out-of-focus blue, creating a sense of depth and highlighting the intricate structure of the genetic material.

Embryology

Chromosomes carry genetic information in the form of genes. In humans, chromosomes include the two sex chromosomes (two X chromosomes in females, one X and one Y in males). The combination of sex chromosomes plays a key role in determining the sex and other characteristics of the offspring.

Embryology

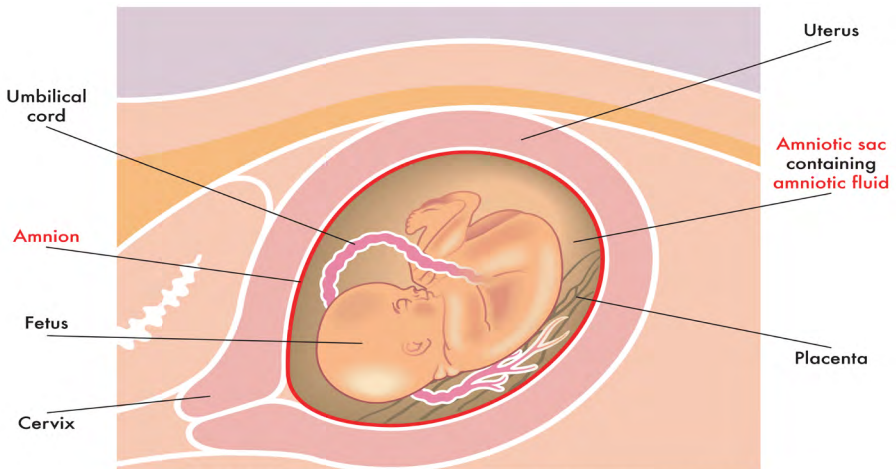
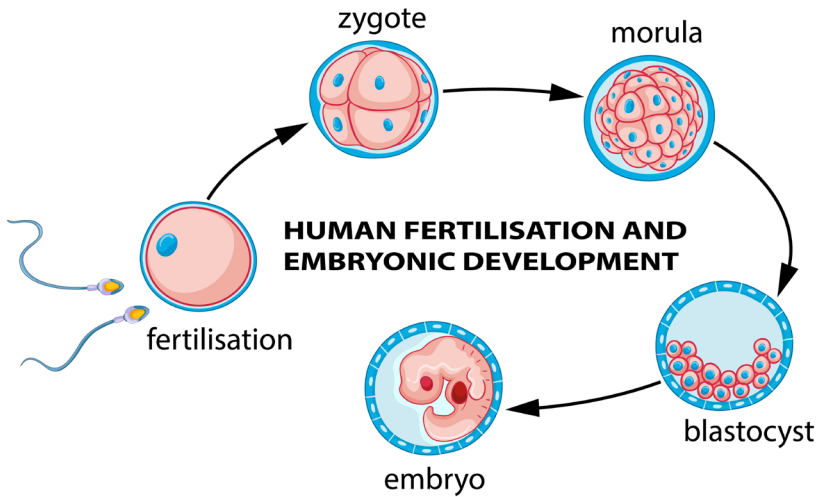
Before modern science, the understanding of “human development” was based on various theories, ranging from vague ideas of gradual formation to beliefs in preformation. Ancient Greek thinkers, like Aristotle, believed that life was created through a combination of male and female fluids. For centuries, the preformation theory dominated embryology, suggesting that a fully formed miniature human (homunculus) existed in either the sperm (spermists) or the egg (ovists), and that development was merely the enlargement of this preformed being. This idea prevailed until the 18th century when it began to shift with the introduction of the epigenesis theory, first proposed by William Harvey and further developed by Caspar Friedrich Wolff. Epigenesis argued that organisms gradually develop from simple materials into complex beings. A significant breakthrough came in 1827 when Karl Ernst von Baer discovered the mammalian egg, showing that development occurs through distinct stages. His work laid the foundation for modern embryology, which was further advanced by scientists like Wilhelm His, who mapped the development of organs in embryos.

In the mid-20th century, the creation of the **Carnegie Stages** provided a standardized and detailed method for identifying the stages of human development, from fertilization to the formation of a fetus. Later, in 1978, the invention of **in vitro fertilization (IVF)** by Robert G. Edwards and Patrick Steptoe revolutionized the study of human development, providing unprecedented insights into the early stages of embryonic growth.

Stages of Human Development:

1. **Zygote (Fertilization):** Human development begins when a sperm fertilizes an egg, forming a zygote, which contains all the genetic material necessary for human development.
2. **Cleavage and Blastocyst Formation:** The zygote undergoes rapid cell division (cleavage) and becomes a blastocyst, containing an outer layer (the placenta) and an inner cell mass (the embryo).
3. **Implantation :** The blastocyst attaches to the uterine wall, where it implants and begins receiving nutrients.

4. **Gastrulation:** The inner cell mass differentiates into three layers (ectoderm, mesoderm, endoderm), which form different organs and tissues.
5. **Organogenesis:** Major organs like the heart, brain, and spinal cord begin forming.
6. **Fetus:** The embryo develops into a fetus, growing in size and maturing until it is capable of sustaining life outside the womb.



The **AMNION** is a membrane that closely covers the embryo when first formed. It fills with the **amniotic fluid** which causes the **amnion** to expand and become the **amniotic sac** which serves to provide a protective environment for the developing embryo or fetus.

Qur'anic Perspective

The stages of human development, as outlined in modern embryology, are remarkably detailed in the Qur'an, especially in Chapter 23, Verses 12-14 and Chapter 22, Verse 5. These verses closely align with scientific facts about embryological development, showing a correspondence between the revelation and modern science.

Qur'anic Verses Describing Human Development:

1. Chapter 23, verses 12-14 (Sura Al-Mu'minun)

❁ Verse 12:

وَلَقَدْ خَلَقْنَا الْإِنْسَانَ مِنْ سُلَالَةٍ مِّنْ طِينٍ

“We created man from an extract of clay (Sulalah min Teen).”

This verse signifies the origin of human life from the earth, reflecting the idea that life is composed of elements found in nature, and clearly mentions that this is the work of the Creator.

❁ Verse 13:

ثُمَّ جَعَلْنَاهُ نُطْفَةً فِي قَرَارٍ مَّكِينٍ

“Then We placed him as a sperm-drop in a firm lodging.”

This refers to the zygote stage of human development after fertilization, where the sperm (*nutfah*) meets and fertilizes the egg. The “firm lodging” (the uterus) is where the embryo implants and grows. While the previous verse points to the creation, this one is points to the formation by God.

❁ Verse 14:

ثُمَّ خَلَقْنَا النُّطْفَةَ عَلَقَةً فَخَلَقْنَا الْعَلَقَةَ مُضْغَةً فَخَلَقْنَا
الْمُضْغَةَ عِظْمًا فَكَسَوْنَا الْعِظْمَ لَحْمًا ثُمَّ أَنشَأْنَاهُ خَلْقًا
ءَاخَرَ فَتَبَارَكَ اللَّهُ أَحْسَنُ الْخَالِقِينَ

“Then We made the drop (nutfah) into a clinging clot (alaqah), then We made the clot into a lump (mudghah), and We made (out of) the lump bones, and We clothed the bones with flesh; then We developed him into another creation. So blessed is Allah, the best of creators.”

This verse describes the sequential development of the embryo:

- ✿ **Alaqah:** A clinging clot, corresponding to the embryo during implantation. The word also means “leech-like,” and early embryos resemble leeches.
- ✿ **Mudghah:** A chewed-like lump, resembling the somite stage of embryonic development (the stage when different parts or segments of the body begin to develop).
- ✿ The verse then mentions the formation of **bones** and the growth of **flesh** around them, a process confirmed by modern embryology.

2. Chapter 22, verse 5 (Sura Al-Hajj)

يَتَأْتِيهَا النَّاسُ إِنْ كُنْتُمْ فِي رَيْبٍ مِّنَ الْبَعْثِ فَإِنَّا خَلَقْنَاكُمْ مِّن تُّرَابٍ
ثُمَّ مِّن نُّطْفَةٍ ثُمَّ مِّن عَلَقَةٍ ثُمَّ مِّن مُّضْغَةٍ مُّخَلَّقَةٍ وَغَيْرِ مُخَلَّقَةٍ
لِّنُبَيِّنَ لَكُمْ

O people, if you are in doubt about the Resurrection, then (consider that) We created you from dust, then from a sperm-drop (nutfah), then from a clinging clot (alaqah), then from a lump (mudghah), formed and unformed, that We may show you (Our power)...

This verse reinforces the sequential stages of development from a sperm-drop to a clinging clot, and finally to a lump of flesh.

Conformity with Modern Science:

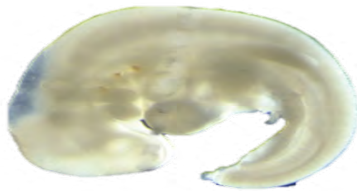
1. **Zygote (Nutfah):** The Qur’an’s reference to “nutfah” aligns with modern knowledge that human development starts from a drop of fluid containing sperm, which fertilizes the egg and forms a zygote.
2. **Alaqah (Clinging Clot):** The term “alaqah” accurately describes both the clinging nature of the embryo during implantation and its leech-like appearance.

3. **Mudghah (Chewed-like Lump):** This stage corresponds to the somite phase in embryonic development when the embryo begins to form body segments.
4. **Formation of Bones and Muscles:** The Qur'an states that bones form before being "clothed with flesh," which matches modern embryological findings.

Scientific Fact and Qur'anic Description:

The Quran describes the stages of human development in a precise chronological sequence that strikingly parallels modern embryology. Revealed more than fourteen centuries ago, these descriptions predate modern scientific discoveries by many centuries, pointing to a remarkable harmony between divine revelation and empirical observation. The Qur'an's detailed portrayal of embryonic development - articulated long before embryology emerged as a scientific discipline - affirms the divine origin of this knowledge and underscores that every human being is brought into existence by Allah's command, from conception through birth.

Notably, verse 22:5 places these embryological references within a theological framework addressing skepticism about resurrection. By drawing attention to the precise and ordered stages of human formation, the verse advances a powerful argument: He who creates life initially with such deliberation and precision is fully capable of re-creating it after death



On the left is the embryo at "Alaqah" stage (about 4 weeks of pregnancy), on the right is a leech. The similarity in shape as described in the Qur'an is striking.



The embryo at the "mudgha" stage which looks like a 'chewed-like lump' as described in the Qur'an.

Conclusion

Throughout this book, we have journeyed through the remarkable intersection between the Qur'an and modern science, exploring how divine revelations align with contemporary scientific discoveries. The Qur'an, while primarily a book of spiritual and moral guidance, provides profound insights into phenomena that have been scientifically verified centuries after they were revealed. This enduring compatibility highlights the Qur'an's timeless wisdom and the intricate relationship between faith and reason.

The Qur'an presents truths that are constant and unchanging, yet astonishingly, they remain relevant and in conformity to modern scientific exploration. The revelations in the Qur'an, relating to many different phenomena, were given to humanity over 1,400 years ago, at a time when much of what we now understand scientifically was beyond human comprehension. This enduring relevance is not a coincidence but a testament to the divine origin of the Qur'an - the true word of the Creator, who possesses infinite knowledge.

One of the key messages of this book is that science and faith are not opposing forces but complementary ones. Where science offers explanations based on observable data, the Qur'an provides eternal truths that transcend human knowledge. The alignment between science and the Qur'an serves as a powerful sign of the Creator's existence and wisdom. The Qur'an's descriptions of the world - whether in the form of the creation of the universe, the development of the human embryo, or the intricate balance of ecosystems - invite humanity to reflect deeply on the magnificence of Allah's creation. Far from negating faith, these scientific observations become windows into the Creator's meticulous design, testifying that each aspect of creation is an ongoing, purposeful act of Allah (God), rather than an autonomous or random process. The more we uncover through science, the more we are reminded of the Qur'an's foresight, and the deeper our understanding of the divine becomes.

In conclusion, this book is not meant to exhaustively catalog all scientific miracles in the Qur'an, nor does it claim to prove the Qur'an through science. Instead, it serves as a platform to demonstrate that the Qur'an's verses contain signs that resonate with the findings of modern science, illustrating that these revelations are far more than mere coincidence. They point to the

Creator's omniscience and the seamless connection between the seen and unseen worlds.

As science continues its discovery journey, we must approach both realms - science and faith - with humility. Scientific findings may change, but the Qur'an will continue to reveal its signs to those who seek knowledge with an open mind. As we discover more about galaxies, embryology, or the Earth's ecosystems, we are reminded that these miracles have been functioning all with the direct will, power, and wisdom of the Creator.

The Qur'an will remain a guiding light for humanity, revealing signs of the Creator's existence and power until the end of time. It is up to us, as seekers of truth, to recognize these signs and draw closer to understanding the infinite wisdom embedded within its verses. Each new scientific insight becomes yet another reminder of the Qur'an's enduring message: that the Creator's might and knowledge extend beyond our horizons, beckoning us toward deeper worship, reflection, and gratitude.



We send down in the Qur'an that which is healing and a mercy to those who believe; as for the evil-doers, it only increases their loss.
(Qur'an, Surah 17, verse 82)

In God's revelation there is healing for our broken spirits, hope for our spiritual future, and joy in the forgiveness of our shortcomings. The Qur'an shows the way to all that is upright, conformable to ethical rectitude and beneficial to man's individual and social life.

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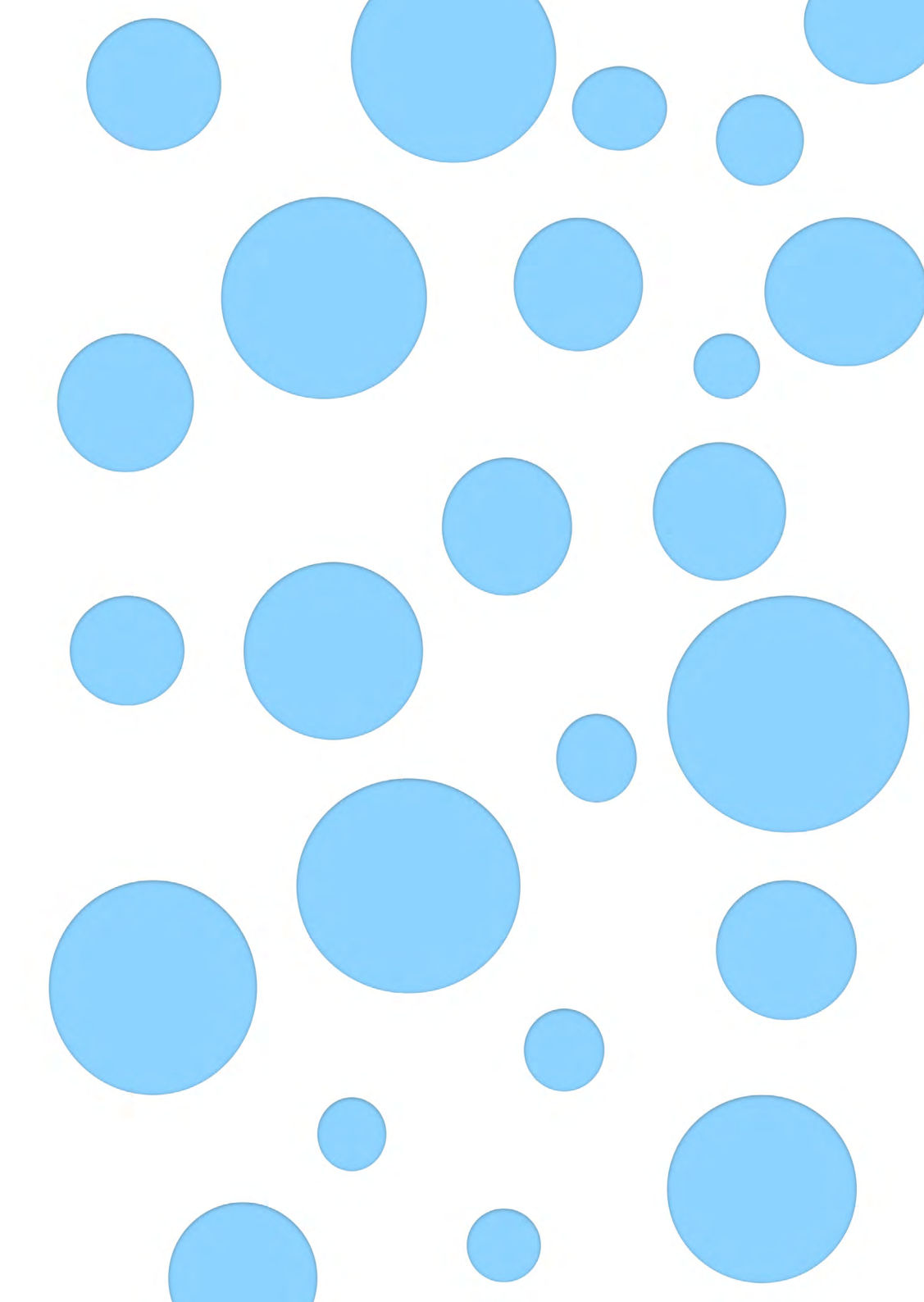
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