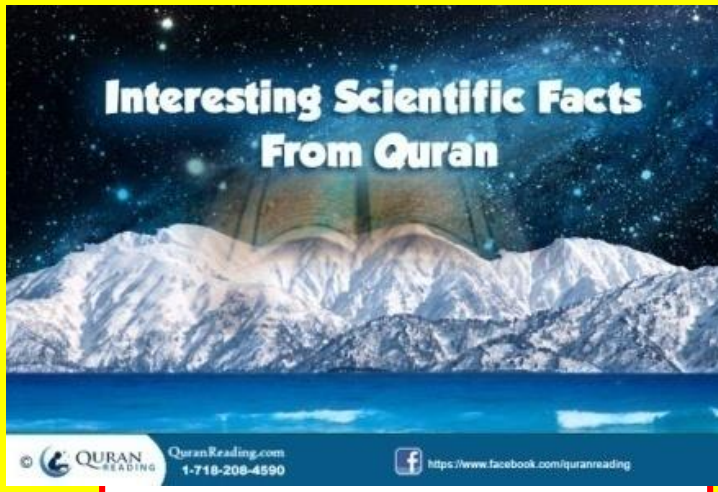




Scientific Signs in the Holy Qur'an

- Practical perspectives of Human life

A. K. M. A. Islam



OUTLINES

- ❑ **Science vs Qur'an**
- ❑ **Knowledge brings us closure to Allah**
- ❑ **Scientific 'Signs' in the Holy Qur'an**
 - Medical & Related Sciences (Human Development etc.)
 - Physical Sciences (Origin of the Universe etc.)
 - Misc. phenomena
- ❑ **Final Remarks**

Science vs Qur'an

Science is the intellectual activity of the systematic study of the structure & behavior of physical & natural world through observation & experiment.

Qur'an is **not a book of science, but a book of guidance from Allah**. It teaches human beings how to live like human beings. It teaches about the purpose of creation. **It's not a book that teaches about science or directly predicts science.**

Quran & Scientific Signs:

“Behold! in the creation of the heavens & the earth, & in the alternation of Night & Day – There are indeed Signs for men of understanding.”

[3:190]

There are scientific & historical facts in the Qur'an which were **unknown to the people at the time, & have only been discovered recently.**

Knowledge: Brings us closer to Allah-I

- ❑ Qur'an describes the creation of Allah. It does not contradict science.
- ❑ At times, the description of a certain creation is so vivid that one may think that it is a book of science.

أَفَلَا يَتَذَكَّرُونَ الْقُرْآنَ وَلَوْ كَانَ مِنْ عِنْدِ غَيْرِ اللَّهِ لَوَجَدُوا فِيهِ اخْتِلَافًا
كَثِيرًا

*"Then do they not reflect upon the Qur'an?
If it had been from (any) other than Allah
(God), they would have found within it
much contradiction."*

Qur'an 4:82

- Islam stresses us to:
 - a. Explore nature b. Know the force behind nature.

Once this is realized the concept of Creation (**Maqlooq**) & Creator (**Qaleq**) become obvious.

- Qur'an is just a book of guidance meant to fascinate you with Allah's creation in order to bring you closer to the truth.

➔ Knowledge of nature brings us closure to Allah

Knowledge: Brings us closer to Allah-II

- Allah (swt) also says, “***Are those who know equal to those who do not***”.
[Qur'an 39:9]
- There are many verses in the Qur'an & countless Hadiths concerning knowledge.
- Qur'an invites us to reflect upon the signs of creation: the heavens, the shining stars & their astonishing celestial movements, & the cosmic order which rules over them all.
- Qur'an urges one to reflect upon the creation of the earth, the seas, the mountains, the desert, & the wonders below the surface of the earth, the difference between night & day and the changing cycle of seasons.
- It also urges mankind to meditate on the extra ordinary creation of the plants and the order & symmetry governing their growth, as well as the multiplicity of the animal kingdom.

Qur'an - Book of 'signs' (ayah)

The Holy Quran is not a book of science but a book of 'signs'. It contains > 6,000 'signs' -- which deal with Science. Some major examples:

1. Physical Sciences

- **Celestial Bodies in Rotation**
- **Expanding Universe**
- **Shape of the Earth**
- **7 Layers of Earth**
- **Mountains & their Deep Roots**
- **Barrier between 2 Seas of Water**
- **Darkness of the Sea**
- **Paths in the Sky**
- **Formation of Clouds**
- **Black Hole**
- **Supernova**
- **Source of Iron**
- **Splitting of an Atom**

2. Medical Sciences

- **Anatomy & Human Develop.**
- **Fetus Protected by 3 Veils of Darkness**
- **Pain Receptors in Skin**
- **Function of Frontal Cerebrum**
- **Milk Produced between Intestine & Blood**
- **Hearing first sense**

3. Misc

- **Preservation of the Body of Pharoah**
- **Other Examples**

Categories of Ayah (only with scientific 'signs')

Total ~ 6,000. Here we mention a list of ~ 1265 'Signs')

Medicine	416
Physics	138
Biology	130
Astronomy & Cosmology	105
Geography	98
Agriculture	89
Math. & Statistics	79
All of the above & others	> 20

Geology	69
Seas & Rivers	35
Transportation	28
Origin of Man & others	27
Engineering	12
Chemistry	11
Language of birds & animals	8
Total > 1265	

Scientific Facts in the Qur'an

Let's start with the **'Signs' in Medical & related Sciences**

- Human embryonic* development
- Fetus protected by 3 veils of darkness
- Development of Hearing (as first sense)
- Function of the frontal cerebrum
- Milk produced between intestine & blood
- Bee and Honey
- Misc.

** Embryo* = an unborn offspring in the process of development

Scientific Knowledge of Embryology – During Pre and Post-revelation of Qur'an

We first look into the human knowledge about Embryology at the time of revelation of the Holy Qur'an 14 centuries ago, down to our time:

- Pre-formation theory ([Aristotle, 384-322 BC & others](#)), existed for thousands of years, was virtually destroyed by Wolff (1759-69).

[\(pre-formation](#): Seminal fluid contains an embryo – a preformed, miniature infant–that simply becomes larger during development.)

- Hertwig in 1875: first to describe the fertilization of an egg by a sperm.
- Von Benden 1883: proved that male & female cells contribute the same number of chromosomes to the embryo.
- Many years elapsed before Wolff's views were accepted.
- Driesch (1900): Final blow to the original pre-formation doctrine was dealt by [Driesch](#) - separated daughter cells of a fertilized egg & allowed to grow into complete embryos.

It is quite astonishing that the Holy Qur'an & Prophet Mohammed (570-632) (*pbuh*) has stated emphatically that: ➔ scientifically correct

- Both male & female contribute equally to the formation of human embryo
- That the human embryo is created in stages.

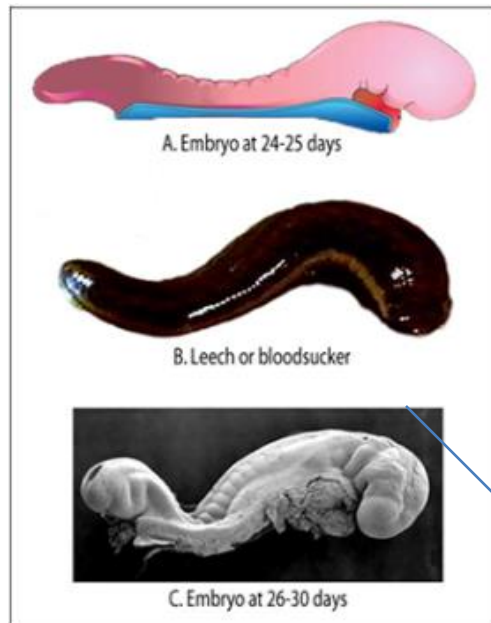
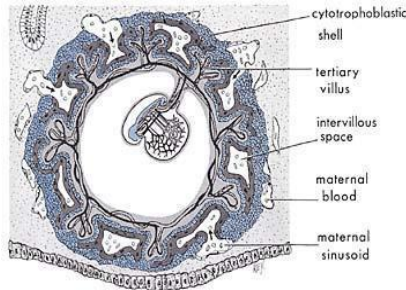
Human Embryonic Developments-I

Qur'an

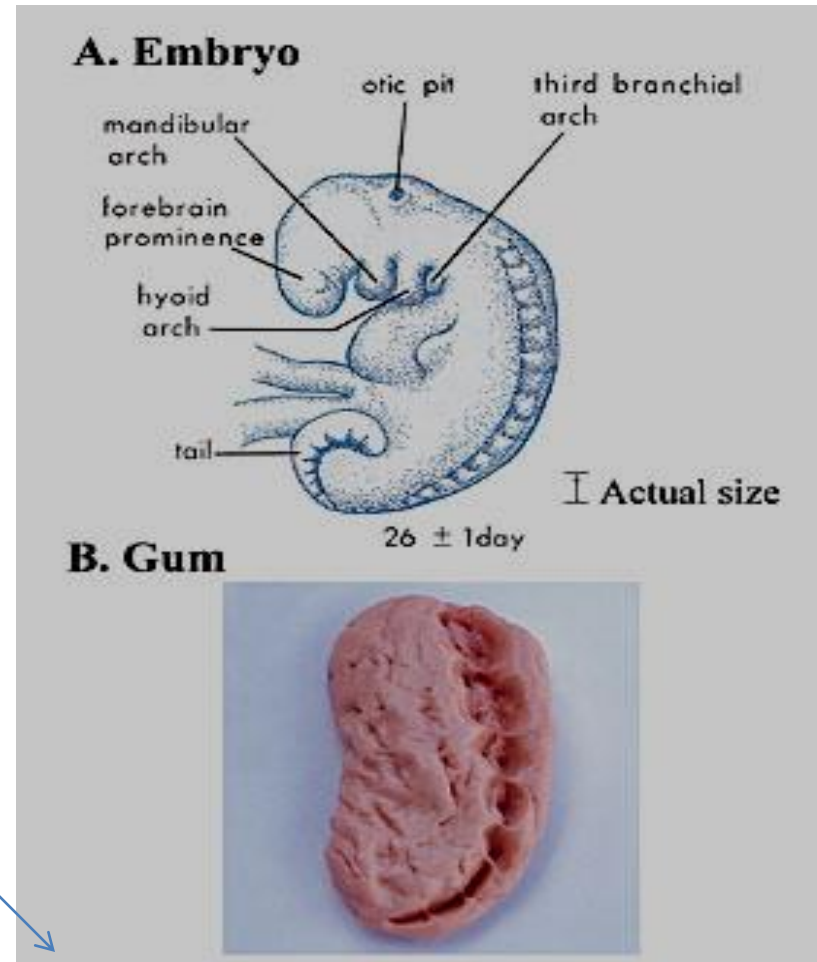
1. Nutfa Amshaaz: 'mixed fluid'

2. Alaqah: Leech-like, that clings

Suspension of
Embryo, during
Alaqah stage
In the womb, at
~ 15 days,
Size ~ 6 mm



3. Mudgha: 'a chewed lump'



Qur'an speaks
about these stages
of in Ayat:

1. 76:2, 23:13;
2. 23:14;
3. 23:14

Human Embryonic Developments-II

Nutfah Amshaaz: “Then We placed him as a mixed-fluid in a safe lodging” - refers to mother’s womb. Qur’an 23: 13

Alaqah Stage: Embryo had this leech-like appearance.

“Then of that leech-like structure, We made a chewed lump.” Qur’an 23:14

Mudghah Stage: Embryo (end of 4th week) looks like a chewed lump of flesh. This appearance resemble teeth marks (at the beginning of vertebrae).

“Then We made out of the chewed lump, bones, & clothed the bones in flesh.”

➔ First the bones form as cartilage & then the muscles (flesh) develop around them.

“Then We developed out of it another creature.” part- 23:14

➔ Human-like embryo forms by the end of the 8th week. After the 8th week, the human embryo is called a fetus. This is the new creature to which the verse refers.

If Qur’an was a book of Science, the Verses would be using the actual terms used by Biologists today.

World did not know all these. Qur’an revealed this knowledge ~1400 yrs ago. So what Science confirms today was already known to Islam long long ago.

Alaqah with 3 meanings

Literally the Arabic word alaqah has 3 meanings:

- leech (blood sucker)
- suspended thing
- blood clot

1. "In comparing a leech to the embryo at the alaqah stage, we find similarity between the two." [The Developing Human p.8]

"Also, the embryo at this stage obtains nourishment from the blood of the mother, similar to the leech which feeds on the blood of others." [Human Development as Described in Quran and Sunnah p.36]

2. The second meaning of the word alaqah is 'suspended thing'. The suspension of the embryo, during the alaqah stage, in the womb of the mother very appropriately fits this description.

3. The third meaning of the word alaqah is 'blood clot'. We find that the external appearance of the embryo and its sacs during the alaqah stage is similar to that of a blood clot. This is due to the presence of relatively large amounts of blood present in the embryo during this stage. Also during this stage the blood in the embryo does not circulate until the end of the third week. So the embryo at this stage is like a clot of blood.

By examining a diagram of the primitive cardiovascular system in an embryo during the alaqah stage we would notice the external appearance of the embryo and its sacs is similar to that of a blood clot due to the presence of relatively large amounts of blood present in the embryo [The Developing Human, p. 65]

So the three meanings of the word alaqah correspond to the descriptions of the embryo at the alaqah stage.

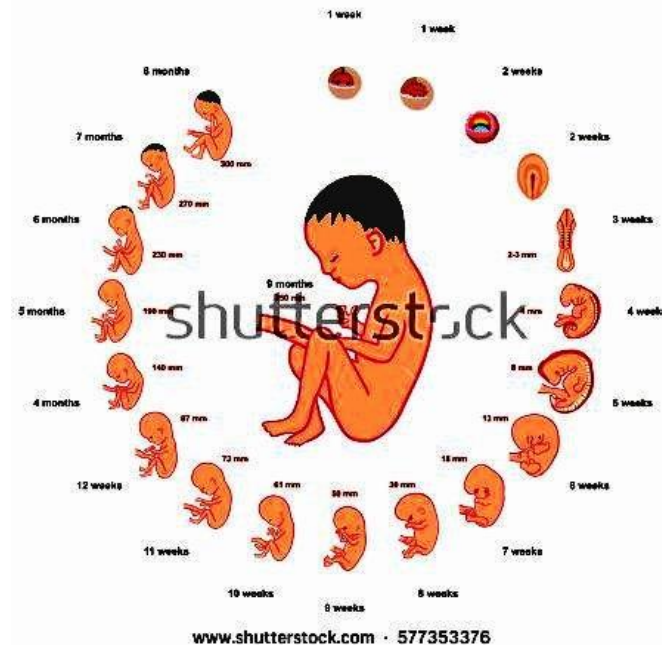
Foetus protected by three veils of Darkness

“He creates you, in the wombs of your mothers, in stages, one after another, in three veils of darkness.” [Qur'an 39:6]

According to Prof. Keith Moore these three veils of darkness in the Qur'an refer to:

1. Abdominal wall of mother
2. Uterine wall
3. Amniotic sac.

The three zones within the mother's womb protect the fetus against all sorts of dangers.



Amniotic sac contains a fluid that fills the amnion to protect the embryo from dryness & shock. It's a kind of cushion that absorbs shocks, balances exerted pressures, prevents the amniotic membrane from adhering to the embryo & enables the fetus to change position.

Human Development – Testimony by Prof. Moore

Testimony

In 1981, during the 7th Medical Conf. in Dammam Prof. Moore said →

(Distinguished Canadian Scientist - Anatomy and Cell Biology)

"It has been a great pleasure for me to help clarify statements in the **Qur'an about human development**. It is clear to me that these statements must have come to Muhammad from **God**, because most of this knowledge was not discovered until many centuries later. **This proves to me that Muhammad must have been a messenger of God,**"

- Dr. Keith L. Moore

Professor Emeritus, Department of Anatomy and Cell Biology
University of Toronto, CANADA



<http://islam101.com/science/embryo.html>

The Journal of the Islamic Medical Association, Vol.18, Jan-June 1986, pp.15-16

A Scientist's Interpretation of References to Embryology in the Qur'an
Keith L. Moore, Ph.D., F.I.A.C.

The Department of Anatomy, Faculty of Medicine, University of Toronto, Canada.

Development of Hearing

- The first sense to develop in a human Embryo is hearing
 - The fetus can hear sounds after the 24th week.
 - Sense of sight is then developed & the retina becomes sensitive to light by 28th week.
- Qur'anic verses related to the development of the senses in the embryo:

“And He gave You (the faculties of) hearing & sight & feeling (& understanding). 32:9

“Verily We created Man from a drop of mingled fluid, In order to try him: So We gave him (the gifts), of Hearing and Sight.” [76:2]

“It is He Who has created for you (the faculties of) Hearing, sight, feeling And understanding: little thanks It is ye give!” [23:78]

“And Allah has extracted you from the wombs of your mothers not knowing a thing, & He made for you hearing & vision & intellect that perhaps you would be grateful.” [16: 78]

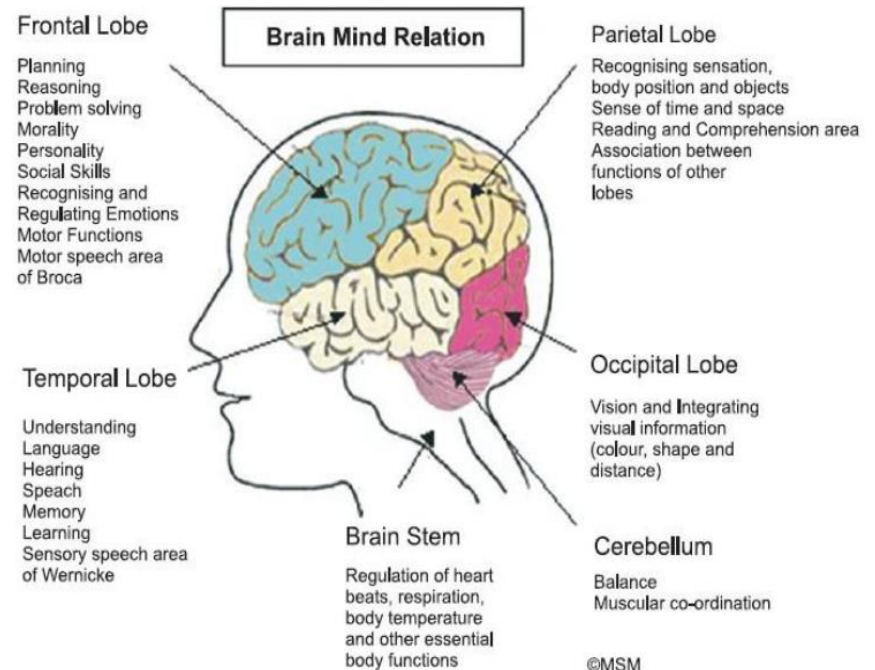
- In all these verses the sense of hearing is mentioned before that of sight. The Quranic description matches with the discoveries in modern embryology.

Function of the Frontal Cerebrum

The Cerebrum (major part of the brain) is responsible for Planning, Motivation & Behavior, what science confirms today was already mentioned in the Qur'an 1400 yrs ago:

“No! If he does not stop, We will take him by the naseyah (front of the head), a lying, sinful naseyah!”

96: 15-16



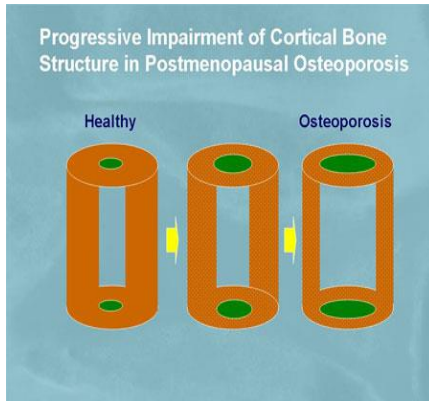
Front Cerebrum is responsible for planning, motivating, & initiating good & sinful behavior, telling lies or speaking the truth. Thus, it is proper to describe the front as lying & sinful when someone lies or commits a sin, **as the Quran has said, “...A lying, sinful naseyah (front of the head)!”**

Anatomy

Science

Osteoporosis (Thin Bone):

1. The wall (cortex) of **long bones** becomes **thinner**, inner **diameter** of the bone **increases**.



2. The **vertebrae** collapse and person becomes **shorter** again.

Quran

“...and whom we grant long life, WE (Allah) **reverse him in creation**, Will they not (human beings) then understand?

Qur'an 36: 68

Birth → Infant → grow in strength → attain full strength → feeble → feeblest old → death

See Qur'an 22: 5

Meaning: Whomever Allah gives a long life, by prolonging his term of life, He causes him to regress in creation - that is, in terms of his physical form. So that after having enjoyed strength & youth, he becomes feeble & weak.

“Will they then not understand?”

Mother's Milk for a Baby

“Mothers shall suckle their children for two whole years; (that is) for those who wish to complete the suckling.”

[Quran 2: 233]

- **WHO & UNICEF have issued guidelines to ensure this in recent time.**

But Qur'an has urged this > 1400 yrs ago.

Further such milk-Fed babies

1. Do better in schools.

(Paediatric Clinic of North America)

Human Milk has many benefits:

- It's easier for a baby to digest.
- It doesn't need to be prepared.
- It has all the nutrients, calories, & fluids baby needs to be healthy.
- It has growth factors that ensure the best development of a baby's organs.
- It has many substances that formulas don't have that protect a baby from many diseases & infections. Such as:
 - Ear infections, Diarrhea, Pneumonia, wheezing, & bronchiolitis & other bacterial & viral infections, such as meningitis.**
- It helps to protect against obesity, diabetes, sudden infant death syndrome (SIDS), asthma, eczema, colitis, & some cancers.

Milk Production in Cattles

Milk in animals is produced from a conjunction between the contents of Intestine & Blood, mentioned in Qur'an 1400 years ago, discovered recently:

"And verily in cattle there is a lesson for you. We give you to drink of what is inside their bodies, coming from a conjunction between the contents of the Intestine & the blood, a milk pure & pleasant for those who drink it." [16:66]

"And in cattle (too) ye have an instructive example: From within their bodies We produce (milk) for you to drink; there are, in them, (besides), numerous (other) benefits for you; And of their (meat) ye eat." [23:21]



<https://www.nal.usda.gov/exhibits/speccoll/items/show/49>

The Quranic description of the production of milk in cattle is strikingly similar to what modern physiology has discovered.

Bee and Honey

“And thy Lord inspired the bee, saying: Choose thou habitations in the hills and in the trees and in that which they thatch.”

“Then eat from all the fruits & follow the ways of your Lord laid down (for you). 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.”

Qur'an 16:68-69

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

يَنْفَكِرُونَ ﴿٦٩﴾



Benefits of Honey

Nowadays, Apiculture & bee products have opened a new branch of research in scientifically advanced parts of the world.

1. **Easily Digested** - Because sugar molecules in honey can convert into other sugars (fructose to glucose), honey is easily digested by the most sensitive stomachs, despite its high acid content. It helps kidneys & intestines to function better.
2. **Rapidly diffuses through the blood** - Honey diffuses into the bloodstream in 7 minutes & is a quick energy source. Brain functions better since the brain is the largest consumer of sugar.
3. Recent Research shows this unique mixture is most effective in removing fatigue & increase athletic performance.
4. **Support blood formation** – Honey provides the energy needed by the body for blood circulation & helps in cleansing the blood.

Honey as the most widespread bee product is listed in medicine among the most valuable foodstuffs, especially because of its sugar content and other ingredients, such as enzymes, etheric oils and mineral salts.

During convalescence after serious diseases and operations, doctors give their patients a 20-40% specially processed, sterilized honey dilution, which is showing great results.



'Signs' in Physical Sciences

- Origin of the Universe (Astronomy & Cosmology)
- Big Bang & Expanding Universe
- Heavens without Pillars
- Gravitation & Celestial Bodies in Rotation
- Shape of the Earth
- Barrier between 2 Seas of Water
- Darkness of the Deep Sea
- Origin of Iron
- Mountains & their Deep Roots
- Formation of Winds, Clouds & Rain
- Misc

Cosmology = Science of the origin and development of the universe.

Astronomy = Study of the universe. It deals with the celestial objects such as planets, stars, comets, meteors, nebulae, and galaxies, and various phenomena involving these objects. It comes from two Greek words, "astro," which means "star," and "nomos," which means "law." Combining these two words, astronomy means "law of the stars."

Origin of the Universe

Qur'an

"... Then HE (Allah) turned to the heaven when it was smoke..."

(Quran, 41:11)

"Do not the unbelievers see that the sky & the earth were joined together before WE (Allah) clove them asunder?..."

(Quran, 21:30)

ثُمَّ اسْتَوَىٰ إِلَى السَّمَاءِ وَهِيَ دُخَانٌ فَقَالَ لَهَا وَلِلْأَرْضِ ائْتِيَا طَوْعًا أَوْ كَرْهًا

قَالَتَا أَتَيْنَا طَائِعِينَ ﴿١١﴾

أَوَلَمْ يَرِ الَّذِينَ كَفَرُوا أَنَّ السَّمَوَاتِ وَالْأَرْضَ كَانَتَا رَتْقًا

فَفُتِّقْنَاهُمَا وَجَعَلْنَاهُمَا مِائِمًا كُلِّ شَيْءٍ حَيٍّ أَفَلَا يُؤْمِنُونَ ﴿٣٠﴾

Science

- **Cosmology:** indicates that, at one point in time, the whole universe was an ultra small, ultra dense & hot blob of gaseous composition.
- The earth & the heavens above (sun, moon, stars, planets, galaxies, etc.) were formed from this same **'smoke'**. At zero time which can be marked as the cleaving asunder of this blob with a Big Bang – creation started.

(The First Three Minutes, a Modern View of the Origin of the Universe, Weinberg, pp. 94-105.)

1407 years ago, the Qur'an revealed that the Universe was created from ultra dense smoke

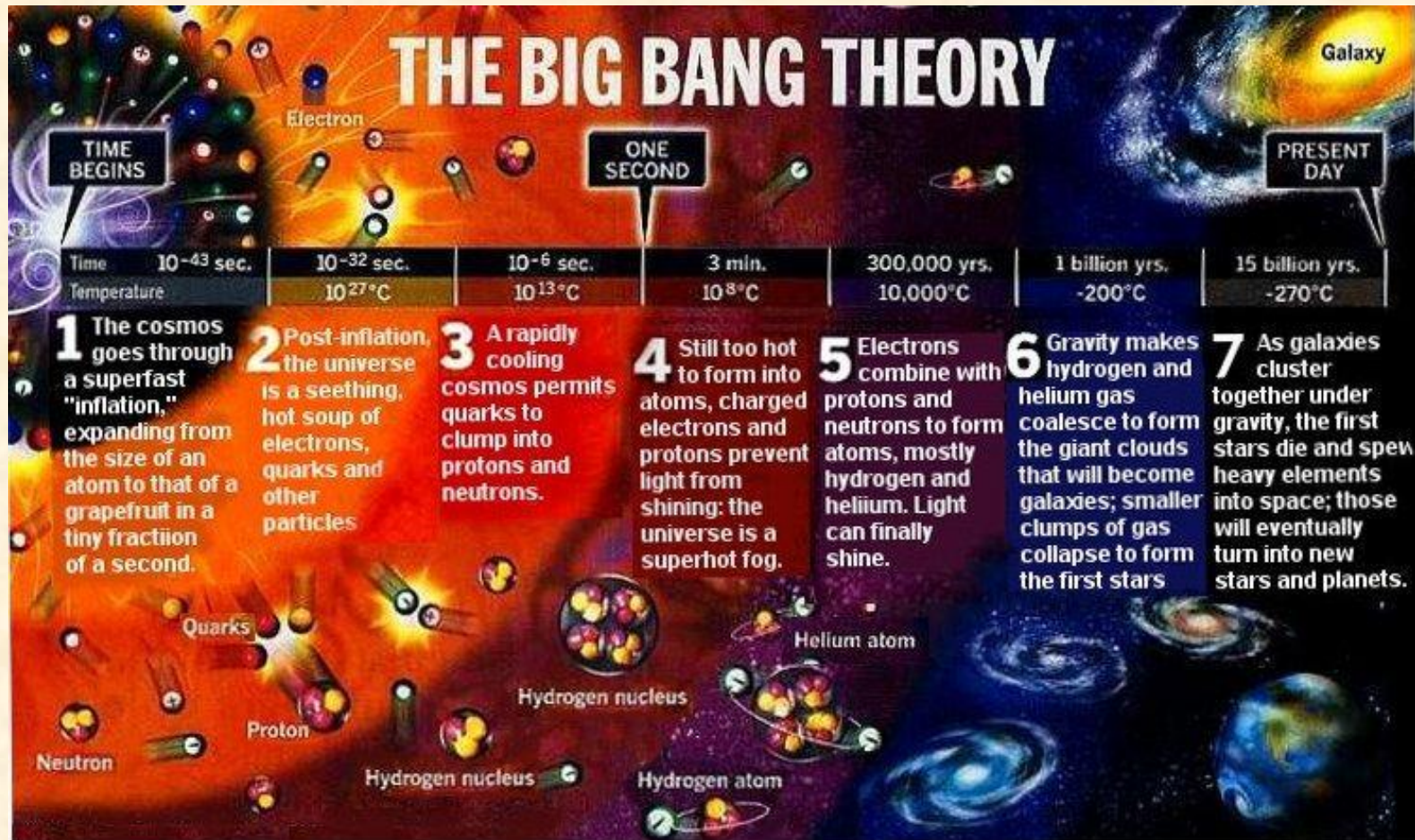


90 years ago, scientists introduced the Big Bang Theory

The Big Bang Theory

The most accepted theory by the scientific community.

The Universe originated in a very dense & hot state, has constantly expanded until now.



Big Bang and Expanding Universe

وَالسَّمَاءَ بَنَيْنَاهَا بِأَيْدٍ وَإِنَّا لَمُوسِعُونَ

“And the Heaven, We have built it with power. Verily, We are expanding it.” 51:47



In 1925, the American astronomer **Edwin Hubble** provided evidence that all galaxies are receding from one another i.e. the universe is expanding.

Expansion of the universe is now an established scientific fact. This is what Qur'an says regarding the nature of the universe.

The Arabic word **mûsi'ûn** is correctly translated as 'expanding it', & it refers to the creation of the expanding universe.

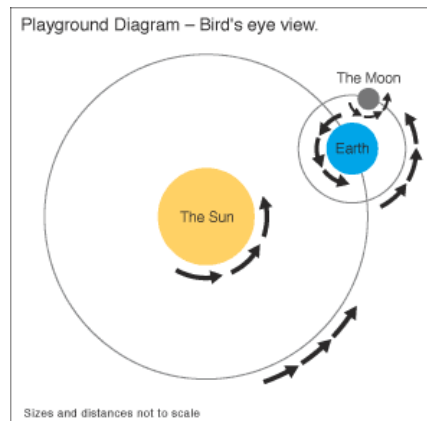
Stephen Hawking, in his book, '*A Brief History of Time*', says, “The discovery that the universe is expanding was one of the great intellectual revolutions of the 20th century.”

Astronomy

Science

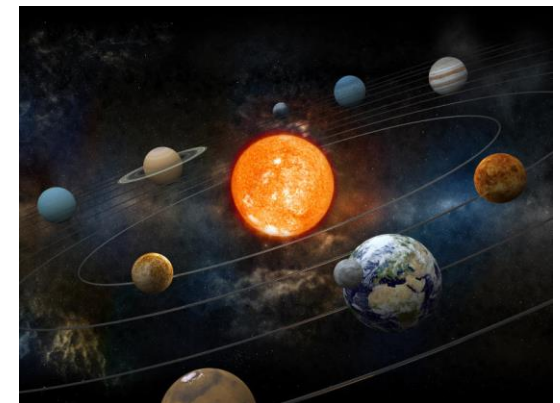
- Moon, a dark body, **reflects light** but does not produce heat whereas the sun produces both **light & heat**.

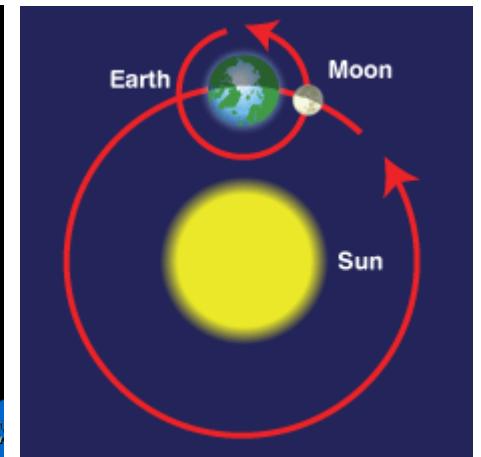
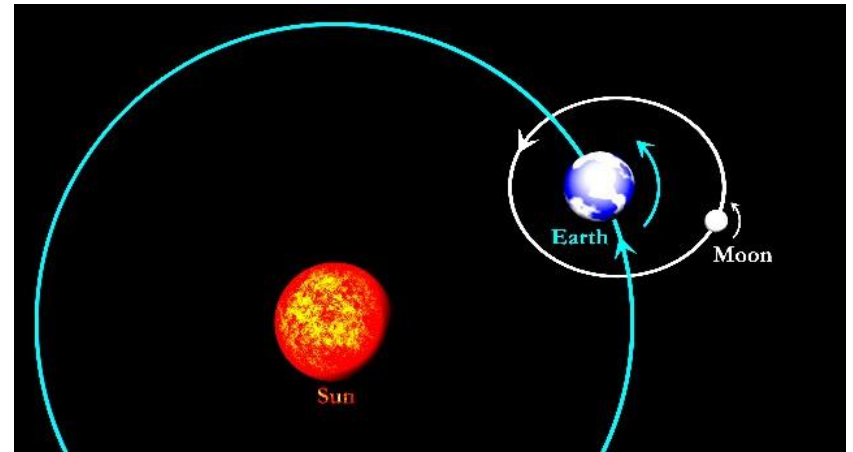
Light in the Moon is merely a reflection



Quran

- “See you not how Allah has created the seven skies one above another, & has made the **moon a light** therein & made the sun a **glowing lamp**?
(71: 15-16)





Heavens without Pillars

"Do they not look at the sky above them, how We have built it & adorned it, & there are no rifts in it."

Qur'an 50: 6

"(Allah) created the heavens without any pillars that you can see..."

Qur'an 31: 10

"Allah is He Who raised the heavens without any pillars that you can see, then He firmly established Himself on the throne. He subjected the sun & moon (to His laws). All running [in a course] for a specified term. He arranges [each] matter; He details the signs ..."

Qur'an 13: 2

الله الذي رفع السماوات بغير عمد ترونها

"He draweth the night as a veil over the day, each seeking the other in rapid succession: He created the sun, the moon, & the stars, (all) governed by laws under His command. Is it not His to create & to govern? Blessed be Allah, the Cherisher & Sustainer of the worlds!"

Qur'an 7: 54

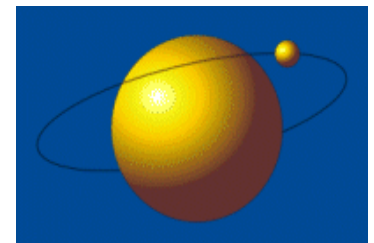
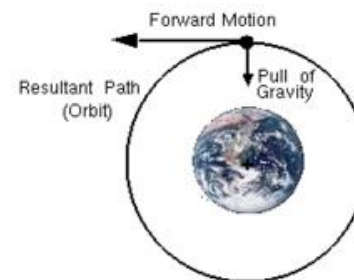
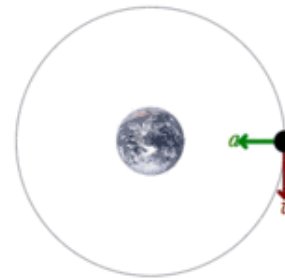
Raising the heavens without any pillars is of very far reaching importance from the scientific point of view. The function of a pillar is to raise a load on the earth's surface. Heavenly bodies swimming in space outside the atmosphere surrounding the earth appear as the sky to us (2:29). The verse clearly declares the heavenly bodies to be a load.

Gravitation and Orbital Motion

- As we know today, every heavenly body or any material body attracts each other with

$$\text{Force} \propto m_1 m_2 / r_{12}^2$$

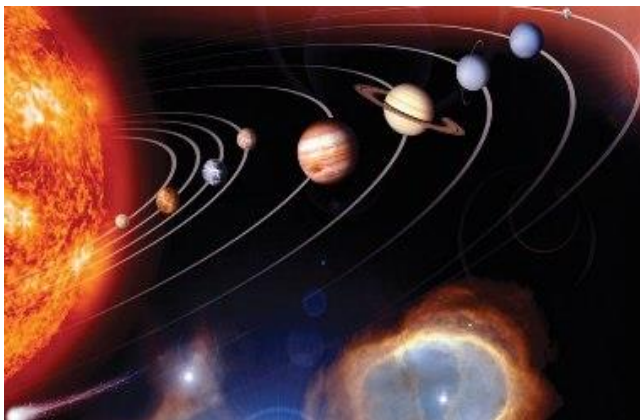
- These heavenly bodies do not collapse & collide with each other due to the effect of a balancing centrifugal force arising from their orbital motion.
 - Obviously the balancing of the gravitational force by centrifugal force constitutes the invisible pillars mentioned in this verse.
 - The sun, moon, stars, & earth [through the alteration of night & day. “--- He draws the night as a veil over the day, each seeking the other in rapid succession. He created the sun, the moon, and the stars, governed by laws under his command..” 7:54] are all subject to His laws.
 - The rotation motion of the earth about its own axis causing day and night alteration are subjected to His laws.
- One should remember - Qur'an is not a book of science. At the time the book was revealed, human civilization had not made enough progress to receive more explicit information about the gravitational theory than has been made in the verses [13:2].



UNIVERSE – Everything in Orbital Motion

خَلَقَ السَّمَاوَاتِ وَالْأَرْضَ بِالْحَقِّ ۚ يُكَوِّرُ
النَّهَارَ عَلَى اللَّيْلِ ۚ وَسَخَّرَ الشَّمْسَ وَالْقَمَرَ ۚ كُلٌّ يَجْرِي
لِأَوْرُ اللَّيْلِ عَلَىٰ جَلٍ مُّسَمًّى ۚ أَلَا هُوَ الْعَزِيزُ الْغَفَّارُ

"He created the heavens & the earth in true proportions. He makes the night overlap the day, & the day overlap the night. He has subjected the sun & the moon to His law; All follow a course for a time appointed.." [39:5]



Sun's Orbit

In 1512 the astronomer Nicholas Copernicus put forward his theory that the sun is motionless at the centre of the solar system, and that the planets revolve around it.

The belief that the sun is stationary was widespread amongst astronomers until the 20th century. It is now a well-established scientific fact that the sun is not stationary, but is moving in an orbit around the centre of our Milky Way galaxy.

The Qur'an mentions the orbit of the sun:

"It is He who created the night & day & the sun & the moon; all swim along (orbit)." [21:33]

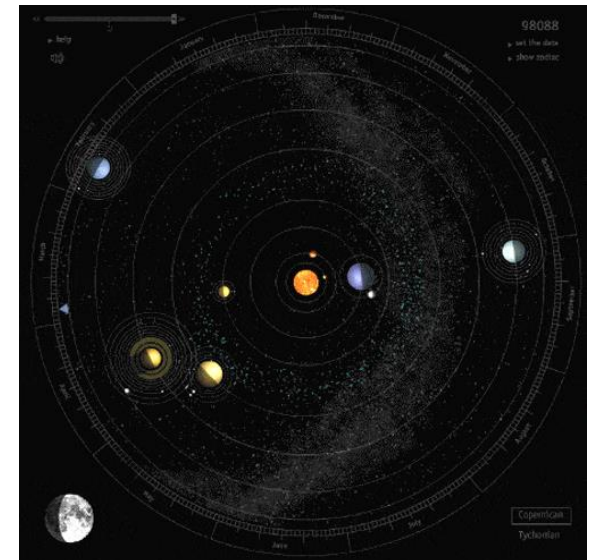
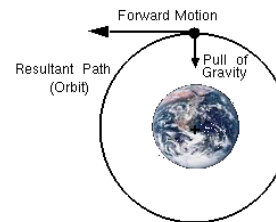
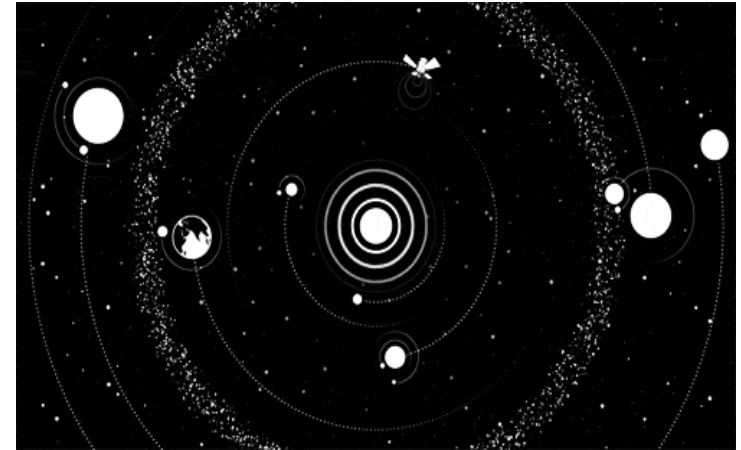
The Qur'an would have been wrong according to astronomers just a couple of decades ago. But we now know that the Qur'anic account of the sun's motion is consistent with modern Astronomy.

Planetary Orbits

All Stars and Planets have Orbits: For centuries it was believed that Earth is fixed & the sun, moon & planets revolve around it. However 1400 yrs ago the Qur'an revealed that not only the sun & moon but even the Earth moves in a designated path:

“[Allah] Created the heavens & the Earth in truth. He overlaps the night over the day & overlaps the day over the night, & enslaved the sun & the moon, ALL MOVE (Kullon Yajree - كل يجري) to a prerecorded destiny. Is He not the Exalted, the Forgiver?” [39:51]

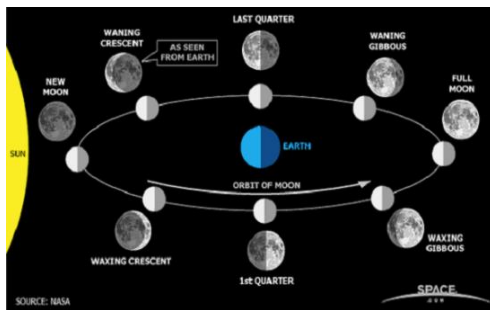
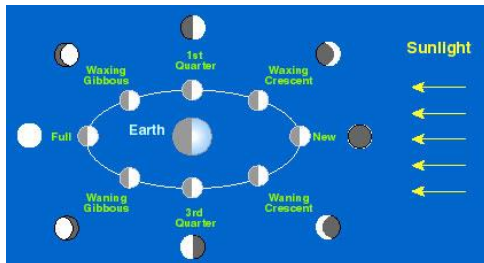
- As stars or planets move, their gravity pull in the surrounding material, this is how our solar system formed.
- First the sun sucked in the H_2 then the proto-Earth & other proto-planets swept the debris around the sun.
- **Muslims ask how could an illiterate man who lived 1400 years ago have known that stars move & sweep?**



Phases of Moon

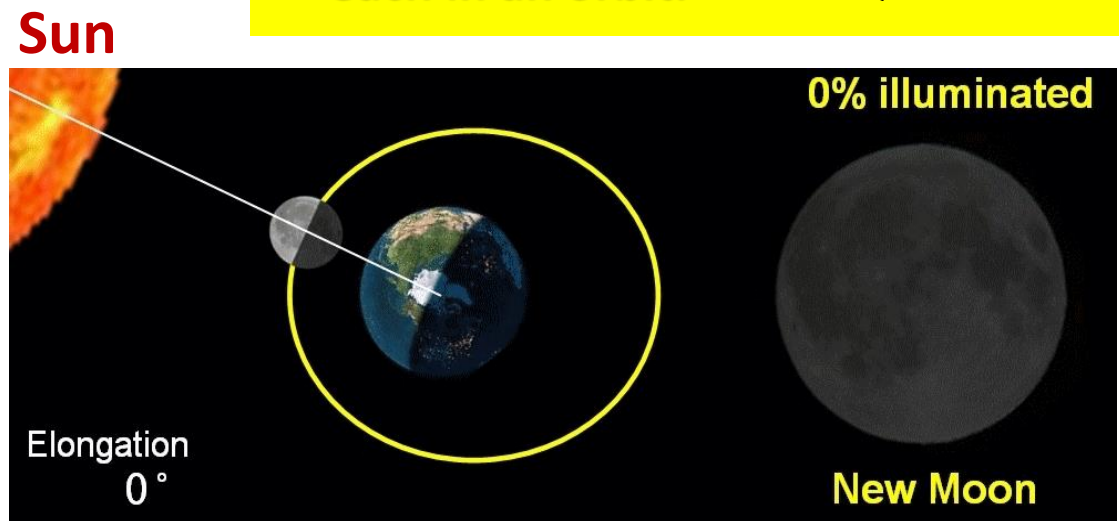
Science

- The sun & moon each rotates in its own orbit.
- The moon starts as a crescent then becomes full moon & then half moon then crescent again.



Quran

- “And the moon, WE (Allah) have measured for it mansions (to traverse), till it returns like the old dried, curved date stalk.” Qur’an 36:39
- “It is not for the sun to overtake the moon, nor does the night outstrips the day & they all float, each in an orbit.” Qur’an 36: 40



Gravitation and Orbital Motion

Earth's Motions

• Rotation

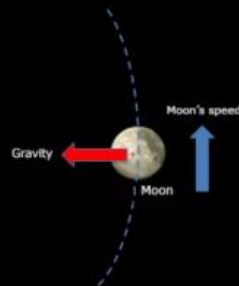
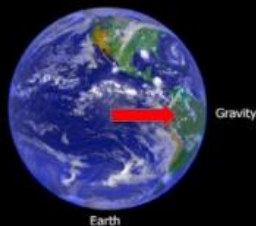
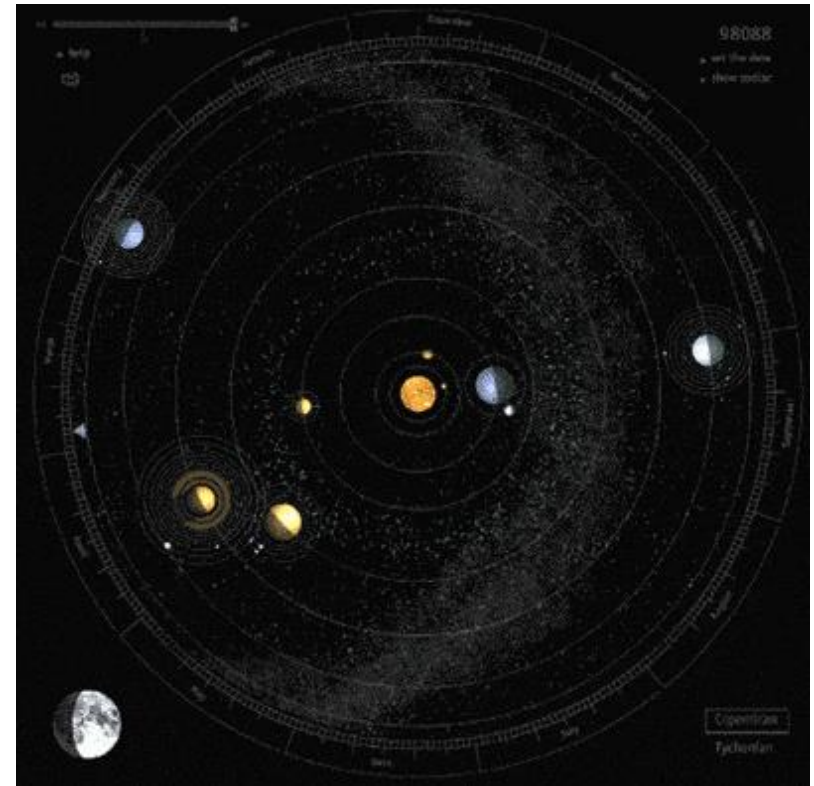
- spinning of Earth from west to east on an axis
- results in day / night
- Earth makes one rotation in 24 hours



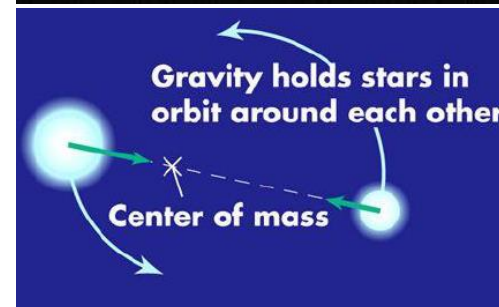
A View of the Earth from high above the North Pole.

• Revolution

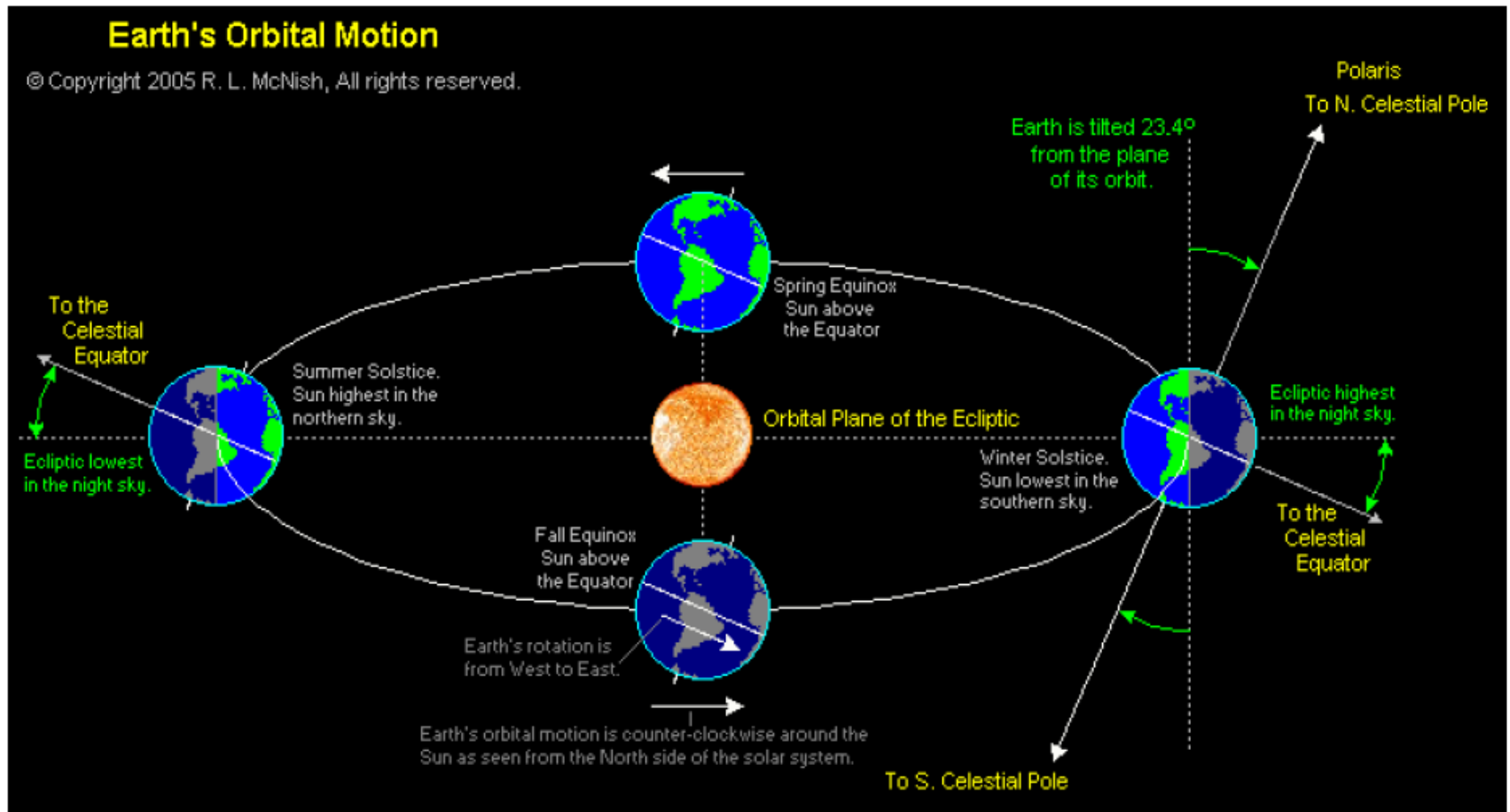
- Earth moves around the sun every $365\frac{1}{4}$ days



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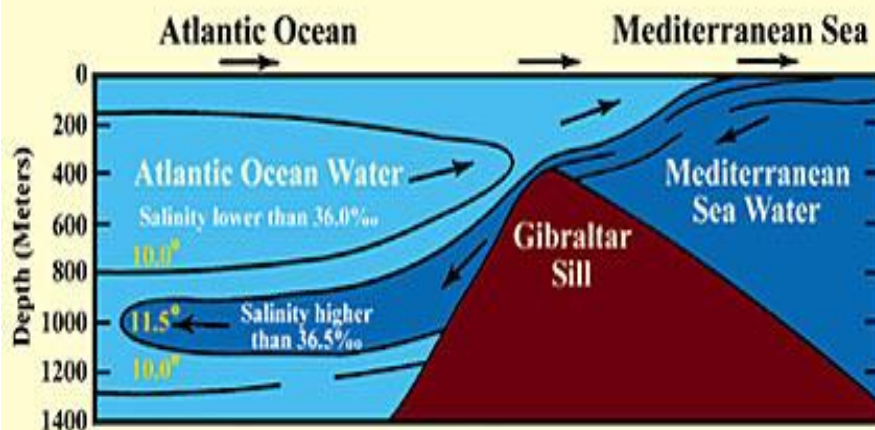
Earth's Orbital Motion



Barrier between two Seas

Modern Science

- At the meeting point of 2 seas/oceans (or a river & a sea) there is a barrier because of own temperature, salinity, & density.
- Example, Mediterranean water enters the Atlantic over the Gibraltar & moves several hundred km into the Atlantic at a depth ~ 1 km with its own warm, saline, & less dense characteristics (compared to Atlantic water). *Principles of Oceanography, Davis, pp. 92-93*



Quran

- “HE (Allah) has set free the two seas meeting together. There is a barrier between them. They do not transgress”. *Quran, 55:19-20*
- “HE (Allah) is the one who has set free the two kinds of water, one sweet and palatable, and the other salty & bitter. And HE (Allah) has made between them a barrier & a forbidding partition.” *Quran, 25:53*



Barrier between River & Sea



The Mississippi River meets the Gulf of Mexico. The two bodies of water never mix with each other; allowing the Gulf of Mexico to retain its clear, blue color.

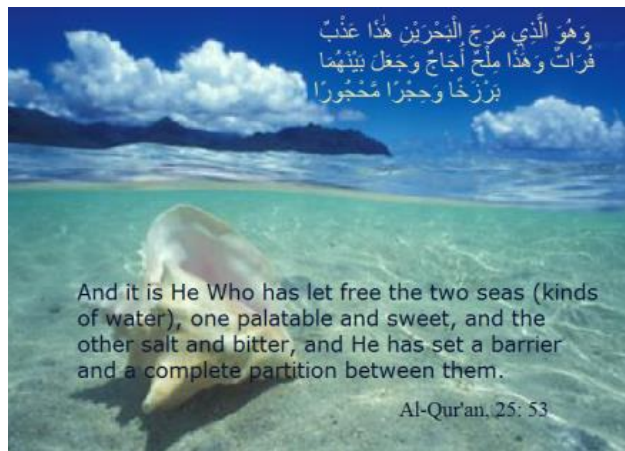
There is a fluctuating dead zone in the Gulf of Mexico, which is caused when high-nutrient water full of N & P from the Mississippi River pours into the Gulf.

That leads to large algae blooms, altered food chains, & hypoxic (oxygen deficient) waters.

<https://www.youtube.com/watch?v=czd20tdEDUE&feature=youtu.be>

Algae = sea weed

Bloom = a flower on a plant



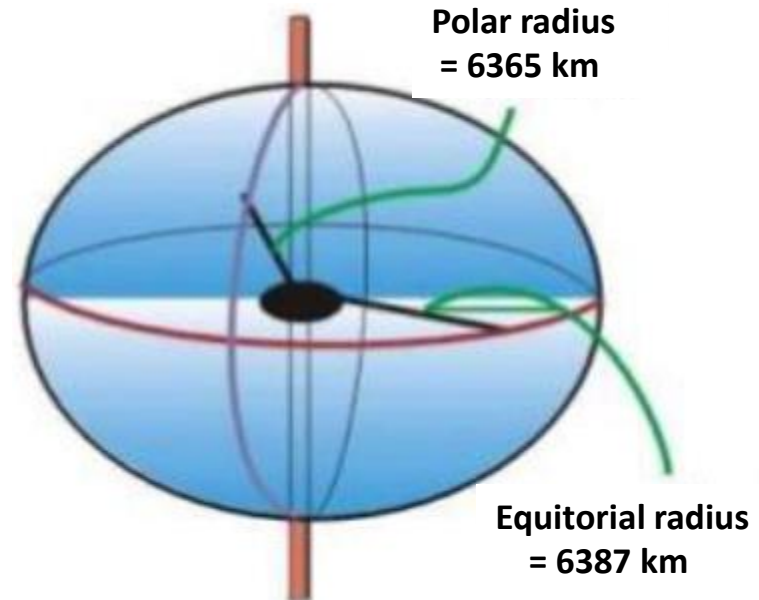
Shape of the Earth

“And the earth, moreover, Hath He made egg shaped (*dahahaj*).” 79:30

والارض بعد ذلك دحاهها



The Earth is not quite a perfect sphere

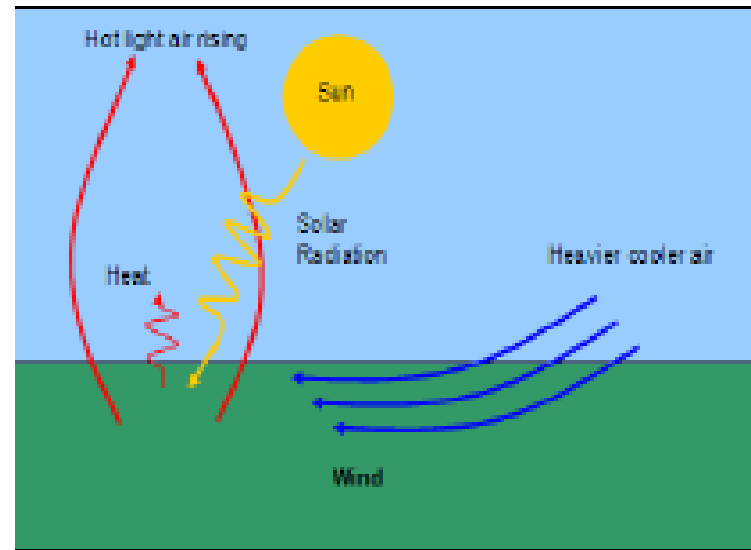


Scientifically correct shape of Earth mentioned in Qur'an 1400 years ago

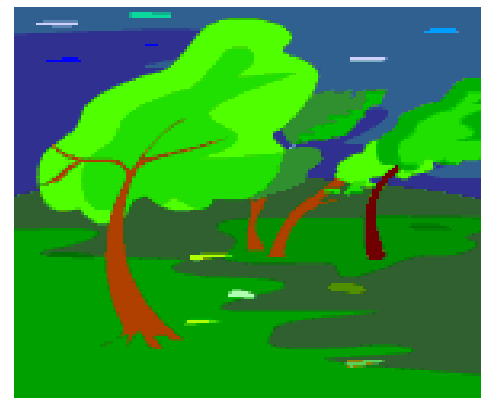
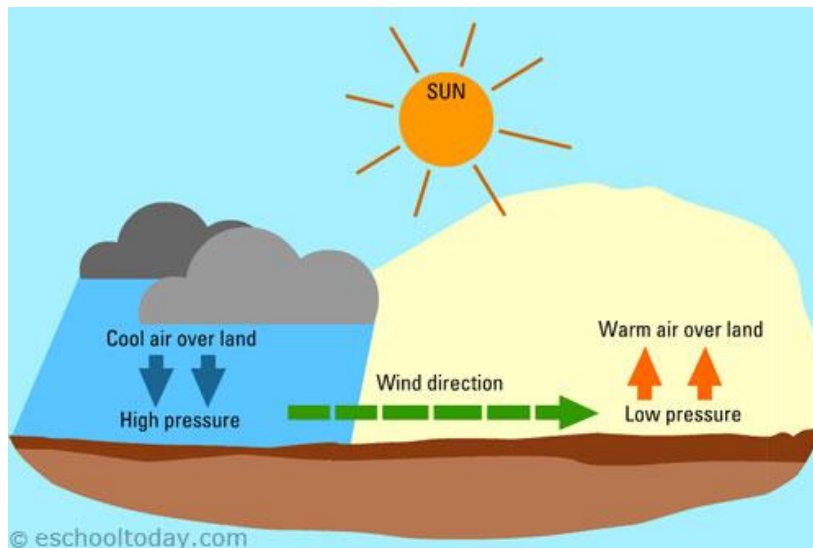
Winds, Clouds, Rain - I

Wind Formation:

“... and [in His] directing of the winds,
there are Signs for people who use
their intellect.” [Qur'an 45:5]



The solar radiation from the sun heats the earth. This heats the air, causing the lighter, hotter air to rise. Heavier, cooler air rushes in to take the place of the hot air rising, causing wind.



Winds, Clouds, Rain - II

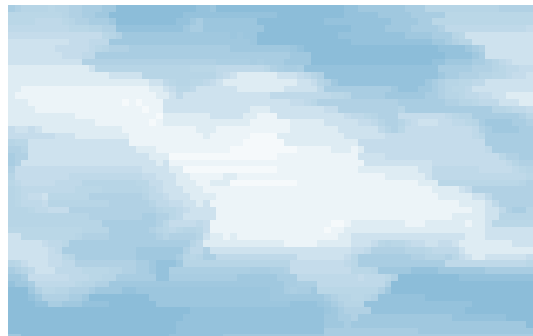
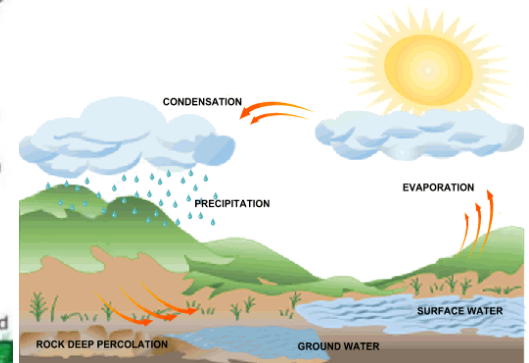
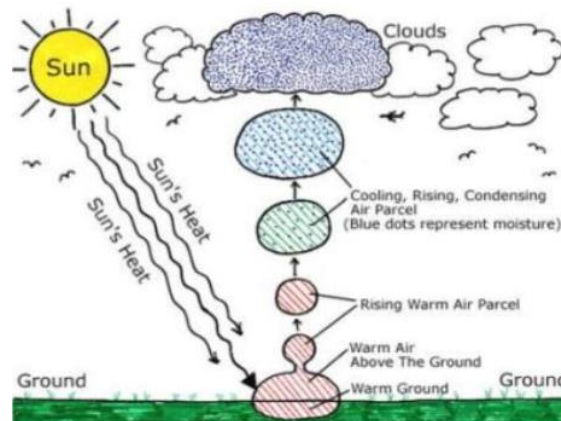
Science: The winds carry water particles which are rich in salt up into the atmosphere; these particles which are called 'aerosols' function as water traps & form cloud drops by collecting around the water vapor themselves.

“And He it is Who sendeth the winds as tidings heralding His mercy, till, when they bear a cloud heavy (with rain), We lead it to a dead land, & then cause water to descend thereon & thereby bring forth fruits of every kind...”

[Qur'an 7:57]

“And send the winds fertilizing (to fill heavily the clouds with water), then cause the water (rain) to descend from the sky, & We give it to you to drink, and it is not you who are the owners of its stores”

[Qur'an 15:22]



Winds, Clouds, Rain - III



Rain in Measured Amount

Every year, the amount of water that evaporates & that falls back to the earth in the form of rain is “constant”.

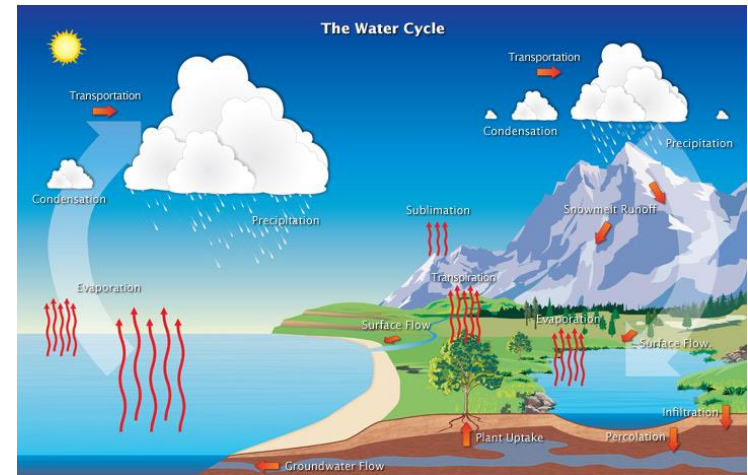
وَالَّذِي نَزَّلَ مِنَ السَّمَاءِ مَاءً يَقْدَرُ فَأَنْشَرْنَا بِهِ بَلْدَةً مَيْتًا كَذَلِكَ
تُخْرِجُونَ

“And who send down rain from the sky in **measured amounts**, & We revive thereby a dead land – thus will you be brought forth.”
Qur'an 43:11

Research shows that in 1 sec ~ 16 m tons of water evaporates from the Earth → **513 trillion tons/year**.

All the available technology in the world, would not be able to reproduce this cycle artificially.

A minor deviation in this equilibrium would create a major ecological imbalance that would be about the end of life on earth.



Water continually evaporates, condenses, & precipitates, & on a global basis,

Evaporation ≈ Precipitation

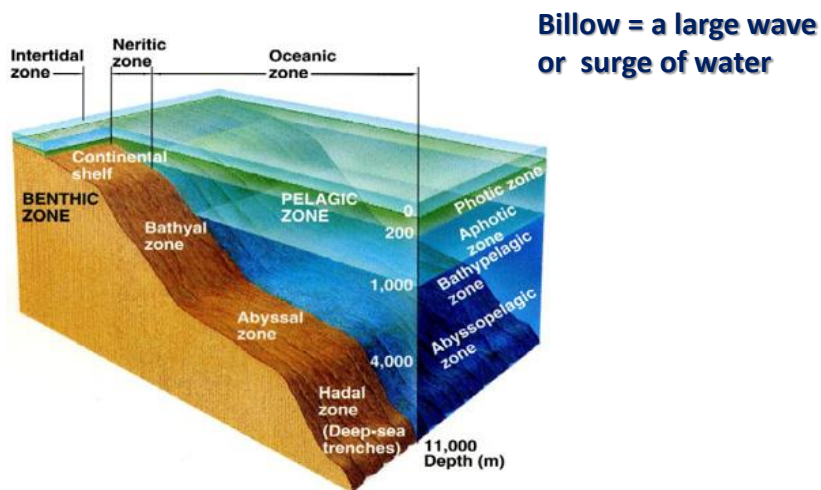
So the total water vapor in the atmos. remains approx. the same.

Over the continents, $Pr > Ev$, and conversely, over the oceans, $Ev > Pr$.

Darkness in the Deep Seas

أَوْ كُظِّلِمَتْ فِي بَحْرِ لَيْجٍ يَغْشَاهُ مَوْجٌ مِّنْ فَوْقِهِ، مَوْجٌ مِّنْ فَوْقِهِ،
سَحَابٌ ظُلِمَتْ بَعْضُهَا فَوْقَ بَعْضٍ إِذَا أَخْرَجَ يَدَهُ لَمْ يَكْدِرْهَا وَمَنْ
لَمْ يَجْعَلِ اللَّهُ لَهُ نُورًا فَمَا لَهُ مِن نُّورٍ ﴿٤٠﴾

“Or (the Unbelievers' state) is like the depths of darkness in a vast deep ocean overwhelmed with billow topped by billow topped by (dark) clouds: depths of darkness one above another. When one puts out his hand (therein), he can hardly see it. And he to whom Allah has not granted light – for him there is not light.” 24:40



This Qur'anic text contains two scientific Signs:

1. **Darkness in the deep sea --** Scientists have recently discovered; not known at the time Qur'an was revealed.
2. **Internal deep waves –** recently discovered.
 - Human beings are not able to dive > 40 m down without the aid of special equipment.
 - They cannot survive unaided in the deep, dark parts of the oceans, at depth = 200 m.
 - For these reasons, scientists have only recently been able to discover these detailed pieces of information about seas.
 - However, the statement of "darkness in a deep sea" was used in Sura Nur 1,400 years ago. It is certainly amazing that such information was given at a time where no equipment to enable man to dive into the depths of the oceans was available.

Elder et al. (1991), Oceans, London, Mitchell Beazley Publishers, p-27

Origin of Iron

Iron did not form on Earth & came from outer space -- mentioned in Qur'an 1400 years ago – a fact discovered by Astronomers recently.

Astronomical findings have disclosed that the Iron found in our world has come from giant stars in outer space.

Not only the iron on earth, but also the iron in the entire Solar System, comes from outer space, since the temperature (T) in the Sun is inadequate for the formation of iron.

Sun's $T = 6,000\text{ }^{\circ}\text{C}$, with core $T_c \sim 20\text{ m degree}$

Iron can only be produced in much larger stars than the Sun, where $T \sim$ few hundred million degrees.

When the amount of iron exceeds a certain level in a star, the star can no longer accommodate it, & it eventually explodes in what is called a “nova” or a “supernova.”

These explosions make it possible for iron to be given off into space.

“And We also sent down Iron in which there lies great force & which has many uses for mankind...” (Quran 57:25)

... وَأَنْزَلْنَا الْحَدِيدَ فِيهِ بَأْسٌ شَدِيدٌ وَمَنْفَعٌ لِلنَّاسِ

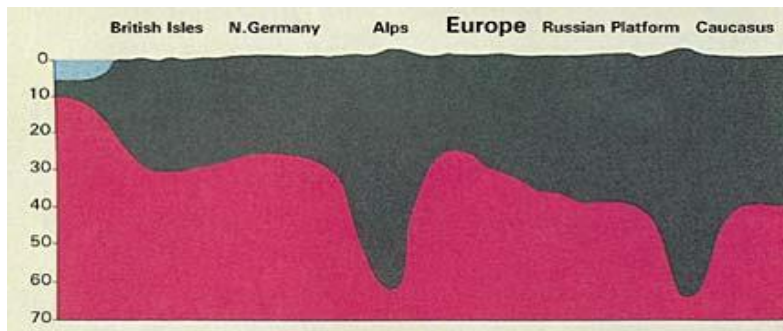


Mountains

Science

1. Shaped like a **peg** = have underlying **roots** deeply embedded in the ground which can reach several times their heights.
2. Theory of **plate tectonics**: mountains work as **stabilizers** for the earth.

(Prof Frank, President of the National Acad of Sciences, USA).



Schematic section. The mountains, like pegs, have deep roots embedded in the ground.

(Anatomy of the Earth, Cailleux, p. 220.)

Quran

- “Have WE (Allah) not made the earth as a bed, & the mountains as pegs? ” 78:6-7
- And HE (Allah) has set firm mountains in the earth so that it would not shake with you ...” Quran, 16:15

Qur'an tells us that Allah placed mountains on the earth so that the earth would not shake:

Sura 16:15: “And He has set up on the earth mountains standing firm, lest it should shake with you; & rivers & roads; that ye may guide yourselves.”

Sura 21: 31: “And We have set on the earth mountains standing firm, lest it should shake with them, and We have made therein broad highways (between mountains) for them to pass through: that they may receive Guidance.”

Sura 31:10: “... He set on the earth mountains standing firm, lest it should shake with you...”

Sura 79: 32-33: “And the mountains hath He firmly fixed; As provision for you & your grazing livestock.”

Qur'an about finger prints

“Does man (a disbeliever) think that We shall not assemble his bones? Yes, We are able to put together in perfect order the every tips of his fingers.”

(Quran 75:3-4)

Every one's finger print is unique to himself, every person who is alive or who has ever lived in this world, has a set of unique finger prints, that is why the finger prints are accepted as a very important identity exclusive to the owner, & it is used for this purpose around the World.

➔ Finger print in Smart ←



Final Remarks



bucaillelegacy.com

'...my choice is to tell the truth'

Maurice Bucaille

- Qur'an mentioned scientific facts 1400 years ago, & we human beings in the 20thc see these to be true".
- Allah approached human beings through a scientific pathway to address their minds.

Skeptics, Rejectionists, Unbelievers Say:

'Qur'anic science is a modern business based upon fraud & that the supposed predictions of modern science in the Qur'an are inaccurate & appear to be plagiarized from the concepts already flourishing during & prior to Muhammad's era.'

"Are they equal to those who got the knowledge & those who did not."

So strive to strengthen your knowledge



'... the hypothesis advanced by those who see Muhammad as the author of the Quran untenable. How could a man, from being illiterate, become the most important "author", in terms of literary merits, in the whole of Arabic literature?

How could he then pronounce truths of a scientific nature that no other human being could possibly have developed at that time, & all this without once making the slightest error in his pronouncement on the subject?'

Dr. Maurice Bucaille, *The Bible, the Quran and Science*, 1978, p. 125

If Qur'an was a book of science, the verses would be using the actual terms used by scientists today

Let us remember that the presented scientific facts were absolutely unknown at the time the Qur'an came to the knowledge of man. QUR'AN is thus of divine origin – it's from our Creator, the Almighty ALLAH.

Thank You!

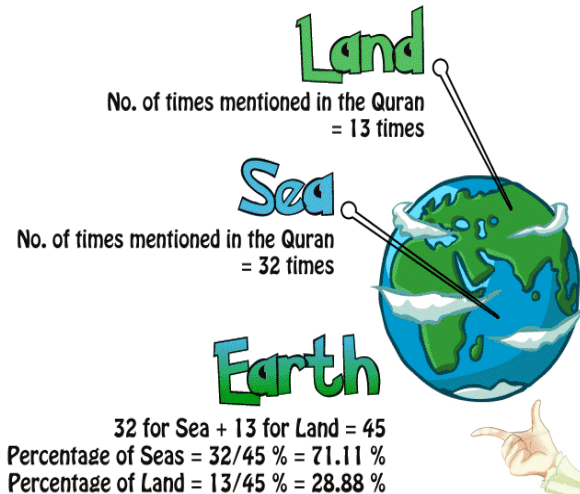


Miraculous Symmetry & Balance in the Holy Qur'an

See the linguistic symmetry for how many times each word was mentioned

"Life": 145 times – 145 times: "Death"
 "The Hereafter": 115 – 115: "Dunya" (This life)
 "Thanking": 75 – 75: "Disaster"
 "Benefit": 50 – 50: "Harm"
 "Angels": 88 – 88: "Devils"

"Satan": 11 – 11: "Seeking refuge from Satan"
 "Injustice": 114 – 114: "Patience"
 "Mind": 49 – 49: "Light"
 "Month": 12 – "Day": 365
 "Praying": 5 – (Muslims pray 5 times everyday!)



Mentioned 24 times
 Female
 Male



"Zakat": 32 times
 "Baraka" (Blessings): 32 times

"Charity": 73 times
 "Satisfaction": 73 times
 :)

Sources :
 - "Holy Quran"
 - "Numerical Miracles in The Holy Quran" Book

Anime photos credits : Nayzak.DeviantArt -- Sayuko.DeviantArt