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## SCIENCE AND MATHEMATICS AS PROOFS TO THE POWER OF ALLAH'S SWT CREATIONS

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### ABSTRACT

*The ingenuity in planning and managing the whole world is a clear evidence on the existence of Allah as the creator of this universe. Allah has furnished all living things its extraordinary characteristics as a proof of His existence and power. This can be traced back to the Koran which depicts Allah's power which can be proven via scientific research and mathematical theories. This paper explains how the power of Allah swt is embellished in His creation as found in bees, spiders and eagles. Some related verses from Koran are quoted to support the ideas of God's amazing creation to make man think about His existence.*

**Keyword: scientific Quran, mathematics in al Quran**

### INTRODUCTION

Throughout the history, man has always been curious to discover how this universe began, where it is heading and the rule applies in maintaining its equilibrium in functioning. By admiring the creation of the universe and its content, man has developed thinking skills via the 'tafakkur' (meditation) and 'tadabbur' the reasoning behind those creations. Such thinking means not just viewing things the way they appear but it brings man to question on the nature and process of creation. Things do not exist out of nothing without any reason. Although human's thinking capability may not be able to answer all their questions but there are basic guidelines to enable men to relate the factor of existence and creation. Therefore, as Moslem thinkers, the thinking process must be based on 'tawheed' and 'proven with research and mathematics.'

### The Fact Of Universe Creation And Proving It Via Scientific Research And Mathematics

The Koran has explained 1000 signs of Allah's creation that can be proven via science and mathematics.

*"And how many signs in the heavens and in the earth that they pass by? Yet they turn (their faces) away from them?" (Sura Yusuf verse 105).*

*"To him is due the primal origin of the heavens and earth: How can he have a son when He has no consort? He created all things, and He has knowledge of all things." (Sura Al Anaam: 101).*

The Koran also mentioned the onset process of creation and demolition of this universe in Sura Al Anbiyaa verse 30:

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

The truth of this verse had been proven by Albert Einstein who found the general relativity theory which claims that space and time are not separate entity with the universe and all the creatures in it. They are interrelated and depended on each other. The general relativity mathematical model also discovered the existence of the universe and forecasted the demolition of the universe. The discovery of the general relativity rule has led modern scientists to name the onset of universe as the “Big Bang” followed by the “evolution” and ended by “Big Crunch” where the whole universe will stop from evolving and will come together as mentioned in the Koran regarding the concept of doomsday.

*“When the sun (with its spacious light) is folded up.  
When the stars fall; losing their lustre.  
When the mountains vanish (like a mirage)” (Sura At Takwir: 1-3).*

One of the most important reasons for the great equilibrium in the universe is the fact that celestial bodies follow the specific paths. Stars, planets and satellites all rotate around their own axes together with the system of which they are a part. The verse which reads,

“ I swear by Heaven with its cyclical systems” (Quran, 86:11) indicates this truth. Naturally at the time when the Quran was revealed, people had no telescopes with which to study bodies millions of kilometers away in space. The Quran however, revealed at that time, provided clear information concerning at that fact.

It is stressed in the Quran that the sun and moon follow specific trajectories.

*“It is He who created night and day and the sun and moon, each one swimming in a sphere.” (Quran 21:33)*

The word “swim” in the above verse is used to describe the movement of the sun in space. It means that the sun does not move randomly through space but it rotates around its axis and follows a course as it does so. The fact that the sun is not fixed in position but rather follows a specific trajectory is also stated in another verse:

*“And the sun runs to it resting place. That is the decree of the Almighty, the All-Knowing”. (Quran 36:38)*

These facts set out in the Quran were only discovered by means of astronomical advances in our time. According to astronomer’s calculations, the sun moves along the path known as the Solar Apex in the path of the Star Vega at an incredible speed of 720 000 kmph. In rough terms, this shows that the sun traverses some 17.28 million km a day.

*“It is He who appointed the sun to give radiance and the moon to give light, assigning it phases so you would know the number of years and the reckoning of time. Allah did not create these things except with truth. We make the signs clear for people who know.” (Quran, 10:15)*

In the first of the above verses, Allah has clearly revealed that the moon will be a mean of measurement for people to calculate a year. In former times, a month was calculated as the time between 2 full moons, or the time it took the moon to travel around the earth. According to this, one month was equal to 29 days 12 hours and 44 minutes. This is known as the “lunar month”. Twelve lunar months represent one year, according to Hijri Calendar.

*“He has created the heavens and earth for truth. He wraps the night up in the day and wraps the day up in night”. (Quran 39:5)*

The word “wrap” means to make one thing lap over another, folded up as a garment that is laid away. The information given in the verses include accurate information about the shape of the world. This can be true only if the world is round.

*“Company of jinn and men, if you are able to pierce the confines of the heavens and earth, pierce through except with a clear authority (Quran,55:33)*

The definition of “the confines of the Heavens” indicates the spherical structure of space. It is in the same way that the diameters of space will be different from different points in space. So the diameters of a constantly expanding space will also display differences.

The Arabic word ‘confines’ meaning “diameter” and refers to the skies and the earth have many diameters. A three dimensional body can only be said to have a single diameter if it is perfectly spherical. This word chosen in the Quran is important indicating the geoid shape of the earth.

Today, the relativity of time is a proven scientific fact. This was revealed by Einstein’s theory of relativity during the early part of the 20<sup>th</sup> century. However the Quran had already included information about time being relative. Some verses about the subject read,

*“A day with your Lord is equivalent to a thousand years in the way you count.” (Quran,22:47)*

*“Your Lord is Allah, who created the heavens and earth in six days and himself on the throne” (Quran 7:54).*

In 1915 Einstein proposed that time was relative (passage of time altered according to space, the speed of the person traveling and the force of gravity at the moment).

When a six days period of time is calculated according to relativity of time, it is equivalent to six trillion days. It is because universal time flows million time faster than time of the earth.

$$\frac{6 \times 10^{12}}{365.25} \text{ days} = 16.427104723 \text{ days}$$

The quranic description of the sequence of day and night, would, in itself, be rather common place were it not for the fact that it is expressed in terms that are today. The quran uses the verb “kawwara” in chapter Az-Zumar to describe the way the night winds or cools itself around the day and the day around the night.

*“He coils the night upon the day and upon the night”*

The original meaning of the verb “coil” is like a turban around the head. It is not until man landed on the moon and observed the earth spinning on its axis that the dark half of the globe appeared to wind itself around the light and the light half appeared to wind itself around the dark.

### **The Creation Of Human Being And Its Evidence Using Scientific Research**

The purpose for human creation in this world is to be the caliphs and God’s slaves to undertake and fulfill the responsibilities bestowed to them. Eventually, they will be judged and placed either in Heaven or Hell based on the good deeds or sins that they have convicted while they were alive. The history of the creation of man has been mentioned in the Koran when Allah said to the Angels:

*Behold, thy Lord said to the Angels: “I will create a vicegerent on the earth. They said, “Wilt Thou place one who will make mischief therein and shed blood? Whilst we do celebrate Thy praises and glorify thy holy (name). He said: “I know what ye know not”. (Sura Al Baqarah: verse 30)*

According to the evolution theories practitioners, human remains have been found all over the world and human are divided into several species. Every species are known with specific terms based on their respective identities. Adam and his descendents are the homosapiens.

*“We have honoured the sons of Adam; provided them with transport on land and sea; given them for sustenance things good and pure; and conferred on them special favours, above a great part of our creation” (Sura Al Isra: 70)*

Then Allah said,

*“Say: travel through the earth and see how Allah did originate creation: so will Allah produce a later creation: for Allah has power for all things.” (Sura Al Ankabut: 20).*

*“Allah is He who raised the heavens without any pillars that ye can see; is firmly established on the throne (of authority); He has subjected the Sun and the Moon (to His law)! Each one runs its course for a term appointed. He doth regulate all affairs, explaining the signs in detail, that ye may believe in certainty the meeting with your Lord.” (Sura Ar Ra’d: 2)*

The creation of human being from a cell is mentioned in Quran,

*“He creates you stage by stage in your mothers’ wombs in a threefold darkness. That is God, your Lord. Sovereignty is His. There is no God but Him. So what has made you turn away from Him.” (Quran,39:6)*

Today we know that the baby under goes three stages of embryonic development while it is in the mothers womb. But this information which has taken long years of research was made known in the Quran 1400 years ago. It will be noticed that three distinct stages occur in the development of a human being while it is in the mother's womb. Basic human embryology, a standard basic work of reference on embryology makes the following statement:

‘The life in uterus has three stages that are pre embryonic which is the first 2 weeks, embryonic which is until the end of eighth week and fetal which is from eighth week to labour.’

When we examine the verses in Quran that deal with attachment of the embryo to the uterus, we see one of the greatest wonders of the Quran. In the Quran ,while referring to the embryo's attachment to the uterus and the beginning of its development, God uses the word ‘Alaq’.

*“Recite in the name of your Lord who created man from alaq. Recite: And your Lord is the most generous” (Quran, 96:1-3)*

The word “alaq” in Arabic means “something that clings, a leech like substance”. The Quran came down to us 1400 years ago and the fact that God uses this word is to describe the development of the embryo in the mother's womb is one of its wonders.

Until very recently embryologists assumed that the bones and muscles in an embryo developed at the same time. Yet, recent research has revealed a very different fact. First, the cartilage tissue of the embryo ossifies. Then, muscular cells that are selected amongst tissue around the bones come together and wrap around the bones. This fact which has recently been discovered by science was related to man in the Quran 1400 years ago.

*“Then we formed the drop into an alaq (embryo) and formed alaq into a lump and formed the lump into bones and clothed the bones in the flesh thus bringing forth another creature. Blessed be God, the Best of Creators (Quran, 23:14)*

This event of which the Quran informed us 1400 years is thus described in a scientific publication titled Developing Human. In that book Moore (1982) wrote,

‘The shape of the skeleton determines the general appearance of the embryo in the bones stage during 7<sup>th</sup> week. Muscles do not develop at the same time but their developments follows around the bones throughout the body and therefore clothe the bones. Thus, the muscles take their well known forms and structures.’

In short, man's developmental stages as described in the Quran are in perfect harmony with the findings of the modern embryology. God had given this information to man centuries ago.

### **The Truth Of Allah's Power By The Amazing Creation Of Animals With Special Characteristics**

The creation of living things with extraordinary characteristics is meant to prove to human on Allah's existence and power. According to Harun Yahya (2008), a clear evidence among the living

things which can be seen in His creations is for instance, honey and the design of the honeycomb in the hexagon form. Mathematicians seek answers to this question and came across with a very interesting conclusion that hexagon is the most suitable geometry form to maximize a space. Termites with its miniscule size are capable to build their homes in a dead wood or decomposed soil of three hundred times bigger than its size. There are air system, drainage systems, larvae rooms, corridors, security exit doors, rooms for summer and winter built inside their home. Another example is the capabilities of spiders to build their magnificent cobwebs with mechanical design and chemistry structure. Spiders have no intelligence to study and memorize and they do not have brains to do tasks. Therefore, it proves that their capability has been given by its creator, Allah the Most Powerful. Eagles are prey bird with sharp eyes to allow them to calculate a perfect distance when attacking its prey. This is made possible with the one million cells for sight in eagles' eyes. Their eyes also have a vision of up to 300 million degree and enlarge a received image up to six to eight times. Eagles can scan an area of 30000 hectares while flying 4500 meters above the ground. They can easily and accurately detect a rabbit amongst the grass. This is a proof of the amazing structure of the eagles' eyes which have been specially designed.

## CONCLUSION

There are many signs of Allah's power in the Koran to encourage man to study the nature and to be reflective on its existence. This is done in order to come out with the best solution that combines Allah power and to regard the study of science and mathematics as part and parcel of life.

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