

## **Some of the Scientific Miracles in Brief**

الإعجاز العلمي في سطور

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## Some of the Scientific Miracles in Brief

Ever since the dawn of mankind, we have sought to understand nature and our place in it. In this quest for the purpose of life many people have turned to religion. Most religions are based on books claimed by their followers to be divinely inspired, without any proof. Islam is different because it is based upon reason and proof.



There are clear signs that the book of Islam, the Quran, is the word of God and we have many reasons to support this claim:

- There are scientific and historical facts found in the Quran which were unknown to the people at the time, and have only been discovered recently by contemporary science.

- The Quran is in a unique style of language that cannot be replicated, this is known as the ‘Inimitability of the Quran.’

- There are prophecies made in the Quran and by the Prophet Muhammad, may God praise him, which have come to be pass.

This article lays out and explains the scientific facts that are found in the Quran, centuries before they were ‘discovered’ in contemporary science. It is important to note that the Quran is not a book of science but a book of ‘signs’. These signs are there for people to recognise God’s existence and

affirm His revelation. As we know, science sometimes takes a ‘U-turn’ where what once scientifically correct is false a few years later. In this article only established scientific facts are considered, not just theories or hypothesis.

### **Scientific Facts in the Quran**

The Quran was revealed to the Prophet Muhammad in the 7th century.

Science at the time was primitive, there were no telescopes, microscopes or anything even close to the technology we have today. People believed that the sun orbited the earth and that the sky was held up by big pillars at the corners of a flat earth. Within this backdrop the Quran was revealed, and it contains many scientific facts on topics ranging from astronomy to biology, geology to sociology.

Some people may claim that the Quran was changed as new scientific facts were discovered but this cannot be the case because it is a historically documented fact that the Quran is preserved in its original language<sup>1</sup>. The Quran was written down and memorised by people during the lifetime of the Prophet Muhammad. One of the copies of the Quran which was written a few years after the death of the Prophet Muhammad is preserved in a museum in Uzbekistan. This copy is over 1400 years old and is exactly the same as the Arabic Quran that we have today<sup>2</sup>.

The following are nine scientific facts found in the Quran:

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1 The Magnificent Qur'an: A Unique History of Preservation.

2 (<http://news.bbc.co.uk/1/hi/world/asia-pacific/4581684.stm>)

## 1. Origin of Life

Water is essential for all living things. We all know that water is vital to life but the Quran makes a very unusual claim:

**We made every living thing from water? Will they not believe? (Quran 21:30)**

In this verse water is pointed out as the origin of all life. All living things are made of cells. We now know that cells are mostly made up of water<sup>3</sup>. For example, 80% of the cytoplasm (basic cell material) of a standard animal cell is described as water in biology textbooks.

The fact that living things consist mostly of water was discovered only after the invention of the microscope. In the deserts of Arabia, the last thing someone would have guessed is that all life came from water.

## 2. Iron

Iron is not natural to the earth. It did not form on the earth but came down to earth from outer space. This may sound strange but it's true. Scientists have found that billions of years ago the earth was struck by meteorites. These meteorites were carrying Iron from distant stars which had exploded<sup>4</sup>.

The Quran says the following on the origin of Iron:

**“We sent down Iron with its great inherent strength and its many benefits for humankind.” (Quran 57:25)**

God uses the words ‘sent down’ for Iron. It is clear from the verse that Iron is not an earthly material, but was sent down for the benefit of humanity. The fact that Iron came

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3 Bruce Alberts, Essential Cell Biology.

4 M. E. Walrath, History of the Earth's Formation.

down to earth from outer space is something which could not be known by the primitive science of the 7th century.

### 3. Sky's Protection

The sky plays a crucial role in protecting the earth. The sky protects the earth from the lethal rays of the sun. If the sky did not exist then the sun's radiation would have killed off all life on earth. It also acts like a blanket wrapped around the earth, to protect it from the freezing cold of space. The temperature just above the sky is approximately -270oC. If this temperature was to reach earth then the planet would freeze over instantly. The sky also protects life on earth by warming the surface through heat retention (greenhouse effect), and reducing temperature extremes between day and night<sup>5</sup>. These are some of the many protective functions of the sky.

The Quran asks us to consider the sky in the following verse:

**“We made the sky a protective ceiling. And yet they are turning away from Our signs!” (Quran 21:32)**

The Quran points to the sky's protection as a sign of God. The protective properties of the sky were discovered by scientific research conducted in the 20th century.

### 4. Mountains

The Quran draws our attention to a very important characteristic of mountains:

**“Did We not make the earth a resting place? And the mountains as stakes?” (Quran 78:6-7)**

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5 Joseph M. Moran, Meteorology: the Atmosphere and the Science of Weather [7] Terry A. Hicks, How Do Mountains Form? [8] Frank Press and Raymond Siever, Earth.

The Quran indicates that mountains have deep roots by using the word stakes to describe them. In fact mountains do have deep roots, and the word stakes is an accurate description for them. A book titled 'Earth' by Geophysicist Frank Press explains that mountains are like stakes, and are buried deep under the surface of the earth. Mount Everest (pictured below), the height of which is approximately 9 km above ground, has a root deeper than 125 km.

The fact that mountains have deep 'stake' like roots was not known, until after the development of the theory of plate tectonics in the beginning of the 20th century.<sup>6</sup>

### 5. Expansion of the Universe

At a time when the science of Astronomy was still primitive, the expansion of the universe was described in Quran:

**“And it is We who have built the Universe with [Our creative] power and keep expanding it.” (Quran 51:47)**

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

The Quran mentioned the expansion of the universe even before the invention of the telescope!

### 6. 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

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6 Naomi Oreskes, Plate Tectonics: An Insider's History Of The Modern Theory Of The Earth [10] Stephen Hawking, A Brief History Of Time.

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<sup>7</sup>.

The Quran mentions the orbit of the Sun:

**“It is He who created night and day, the Sun and the Moon, each floating in its orbit.” (Quran 21:33)**

The Quran would have been wrong according to astronomers just a couple of decades ago. But we now know that the Quranic account of the Sun’s motion is consistent with modern Astronomy.

### **7. The Ocean**

The Quran uses imagery to convey its deep meanings, here it describes the state of the unbelievers as:

**“Darkness out in a deep ocean which is covered by waves, above which are waves, above which are clouds, layers of darkness, one upon the other. When one puts out his hand [therein], he can hardly see it. Those God gives no light to, they have no light.” (Quran 24:40)**

It is commonly thought that waves only occur on the surface of the ocean. However oceanographers have discovered that there are internal waves that take place below the surface of the ocean. These waves are invisible to the human eye, and can only be detected by specialist equipment<sup>8</sup>. The Quran mentions darkness in a deep ocean above which are waves, above which are waves, then clouds above that. This description is not only remarkable because it describes the internal waves in the ocean, but also because it describes darkness deep in the ocean. A human being can dive no

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7 Lambert M. Surhone, Orbital Period: Orbit, Sun, Earth, Conjunction, Orbital Node, Apsis, Semi-Major Axis.

8 M. Grant Gross, Oceanography: A View of Earth.

more than 70 metres without breathing equipment. Light is present at that depth, but if we go down 1000 metres it is completely dark<sup>9</sup>. 1400 years ago there were no submarines or specialist equipment to discover internal waves or the darkness deep inside the oceans.

### 8. Lying and Movement

There was a cruel oppressive tribal leader named Abu Jahl who lived during the time of Prophet Muhammad, may the mercy and blessings of God be upon him. God revealed a verse of the Quran to warn him:

**“No Indeed! If he does not stop, We will seize him by the forehead, his lying, sinful forehead.” (Quran 96:15-16)**

God does not call this person a liar, but calls his forehead (the front part of the brain) ‘lying’ and ‘sinful’, and warns him to stop.

This verse is significant for two reasons. The first is that the front part of our brain is responsible for voluntary movement<sup>10</sup>. This is known as the frontal lobe. A book titled ‘Essentials of Anatomy and Physiology’ which includes the results of research on the functions of this area states: The motivation and the foresight to plan and initiate movements occur in the anterior portion of the frontal lobes, the prefrontal area<sup>11</sup>. The part of the brain that is responsible for movement is said to be seized if the man does not stop.

Secondly, numerous studies have shown that this same region (frontal lobe) is responsible for the lying function of

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9 Danny Elder, Oceans.

10 (<http://www.ncbi.nlm.nih.gov/pubmed/2289137>).

11 Rod R. Seeley, Essentials of Anatomy & Physiology.



the brain<sup>12</sup>. One such study at the University of Pennsylvania in which volunteers were asked questions during a computerized interrogation, it was found that when the volunteers were lying there was significantly increased activity in the prefrontal and premotor cortices (frontal lobe region)<sup>13</sup>. The front part of the brain is responsible for movement and lying. The Quran links movement and lying to this area. These functions of the frontal lobe were discovered with medical imaging equipment which was developed in the 20th century.

### 9. Pain Receptors

For a long time it was thought that the sense of feeling and pain was dependent on the brain. However it has been discovered that there are pain receptors present in the skin<sup>14</sup>. Without these pain receptors, a person would not be able to feel pain.

Consider the following verse on pain:

**“We shall send those who reject Our revelations to the (Hell) Fire. When their skins have been burned away, We shall replace them with new ones so that they may continue to feel the pain: God is Almighty, All-Wise.”**  
**(Quran 4:56)**

God tells the people who reject his message that when they are in Hell and their skins are burnt off (so they can't feel any pain), he will give them new skins so that they continue to feel the pain.

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12 (<http://cercor.oxfordjournals.org/content/20/1/205.full.pdf>)

13 (<http://www.americanscientist.org/issues/pub/2002/3/diogenes-new-lamp>)

14 Michael Darmon, Molecular Biology of the Skin: The Keratinocyte.

The Quran makes it clear that pain is dependent upon on the skin. The discovery of pain receptors in the skin is a fairly recent discovery for Biology.

### **Conclusion**

These are just some of the many scientific facts found in the Quran. It is important to note that the Quran is not a book of science, but that it is consistent with science. To claim that scientific facts in the Quran are due to coincidence would be irrational. The best explanation is that God revealed this knowledge to the Prophet Muhammad.

Just like the Quran contains knowledge about the natural world, it also contains information about the inner dimensions of our souls. It relates to our feelings, wants and needs. The Quran informs us that we have a purpose in life, and that following God's guidance will lead us to inner peace in this life, and Paradise in the hereafter. And that rejection of his message will lead to depression in this life and Hellfire after death.

**“We shall show them Our signs in the Universe and within themselves, until it becomes clear to them that this is the Truth. Is it not enough that your Lord is the witness of all things?” (Quran 41:53)**