
The Reality Behind the Universe

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Here we go. The articles in this promised series are going to be shorter and denser segments and come much more often. They are already written, and the time has come. There will be a separate page posted after the first segment so you will not have to refer back to each article as it is published.

Part I The Basics

In the beginning...G-d split the waters, the light, the time frame (more about that later), even Man, but before all that He needed to split the alphabet. The kabbalists tell us that the Red Sea (Endless Sea) was split from the very beginning, which they explain is the only reason why it could be physically split 2448 years later. They also tell us that on Moses' staff were written the 72 Names and the 42-Letter Name, which were used to split the waters. But before even those essential Names existed there was the Hebrew *Alef-bet*, and like an egg, it needed to be cracked open.

So, what if we could show you that there is a single way to split the 22 letters of the Hebrew *Alef-bet* in two that would give rise to the 42-Letter Name, the 72 Names, the Torah, the concept of Israel, the primordial mathematical constant phi, the 13 attributes and much more?

This proof/study comes from a mathematical project my daughter and I have been working on together and has grown into this series of articles we prepared, the first of which is presented today. If you are mathematically oriented, please enjoy these pages to their fullest and please dig deeper and expand wherever you feel compelled. We cannot dwell on any one topic or point very long as we have a lot of territory to cover. While we hope you will see the profundity in each point we make, given the subject matter, we acknowledge that we are only scratching the surface. If you are not mathematically inclined, please do not dwell on any one equation or concept; try to take in the overall picture we are presenting, which is the real point of this paper. First, we need to ask how many ways the **22** letters of the *alef-bet* can be split into 2 separate groups?

????????????????????

Using the formula n-subset-2, we get $2^n - 1$ ways, and so since in this case $n = 22$ letters, there are:

$$2^{22} - 1 = 4,194,303 \text{ different ways.}$$

We are going to make the leap here and assume that G-d exists and Created the *alef-bet* along with everything else. You do not have to. You can substitute whatever force of Creation you believe. As these articles progress, please check back in with your beliefs and assumptions as they may indeed change with what we are revealing. Nevertheless, 4194,303 different ways are

a lot of options G-d was confronted with after He created the Hebrew alphabet. Abraham Avinu called them “the **22** building blocks” in his book, *The Sefer Yetzirah* (The Book of Formation), written 3800 years ago. We will soon understand why.

OK, so if we, or G-d, wanted to divide the **22** letters evenly into 2 equal size sets of any **11** letters each, we would use the combination formula, in which $n!$ represents n (a number)! (factorial) meaning a multiplication series of all the integers up to that number ($1 \times 2 \times 3 \times 4 \dots n$) and thus:

$$C(n,r) = \frac{n!}{r!(n-r)!} \quad \text{or} \quad \frac{22!}{11!(11!)} = 705,432 \text{ different possible combinations.}$$

705,432 is still a whole lot of choices. Yet there is only One (1) perfect one. According to the writings of innumerable kabbalists, including R' Shimon Bar Yochai in the Zohar, R' Isaac Luria, R' Chaim Vital, R' Abraham Abulafia and the Baal Shem Tov, all of blessed memory, there are two matrices of Hebrew letters that were present at the beginning of the Torah and of time. Both are weaved into our daily prayers and prayer books: the 42-Letter Names (Upper and Lower) and the 72 Names (Triplets) matrix of 8 columns by 9 rows. The Upper **42**-Letter Name is comprised of 3 iterations (spelling out expansions) of the unpronounceable Tetragrammaton (????).

יהוה

יהוה יהוה יהוה

יהוה יהוה דלתת יהוה יהוה יהוה יהוה יהוה יהוה

The 3 levels contain 4, 10 and 28 letters respectively.



The Lower **42**-Letter Name is comprised of the **42** initials of the *Ana B'koach* prayer and is

arranged in a 6 x 7 matrix, which according to the Ramchal, matches the innermost gate of the Holy Temple (6 x 7 cubits) to the Holy of Holies.

The Baal Shem Tov tells us these **42** letters connect us to the **42** journeys of our soul and the **42** journeys that the Israelites made in the Exodus from Egypt to Israel, each journey delineated with the prefix *mem* (?) and *bet* (?), as in the *Shem MemBet* (??) of gematria value **42**.

It is because of these Names that the first paragraph of the **1000**-letter *Shema* prayer, which is directly excerpted from **3** places in the Torah, has **42** words and the 2nd and 4th paragraphs have **72** words each. It is also why the first paragraph of the *Amidah* has **42** words, as does the last large paragraph, which in turn is flanked by two isolated verses of **42** letters each.

The **72** Name matrix is encoded into the **3** consecutive **72**-letter verses

והו	יכי	סיט	עלם	מהש	ללה	אכא	כהת
הזי	אלד	לאו	ההע	זול	מבה	הרי	הקם
לאו	כלי	לוו	פהל	זלך	ייו	מלה	וזהו
נתה	האא	ירת	שאה	ריו	אום	לכב	וער
יוזו	להזו	כוק	מנד	אני	וועם	רהע	יז
ההה	מיכ	וול	ילה	סאל	ערי	עשל	מיה
והו	דני	הזשי	עמם	ננא	נית	מבה	פוי
נמם	ייל	הרוז	מוצר	ומב	יהה	ענו	מוזי
דמם	מונק	איע	וזבו	ראה	יבמו	היי	מום

(Exodus 14:19-21) that describe the splitting of the Red Sea,

By the way, if you sum up the square roots of the gematria values of each of these **72** triplets they total **720.0** and the sum of the square roots of the sum of each of its 9 rows is **280.0**

$$\begin{aligned} \Sigma\sqrt{(1 - 72 \text{ triplets})} &= 720.0349 \\ + \Sigma\sqrt{(1 - 9 \text{ rows})} &= \underline{280.01882} \\ &= \mathbf{1000.054} \end{aligned}$$

The significance of this perfection, especially the tiny remainder **.054** will be apparent and explained shortly, suffice to say this precision (**1000.0**) in a calculation that involves the irrational square roots of **432** different components is impressive. Moreover, the fact that both the **72** Name matrix and the **1000**-letter *Shema* share this number **1000.0** in common is not causal, nor is it coincidental; the reason for **1000.0** will also be revealed shortly. In it lies a secret to unlocking the future and to understanding why, in a universe based on **10 sefirot** (dimensions), and on base **10** mathematics to interpret it, there must be exactly **22** letters (building blocks of unique energy levels).

The square roots of the 216 number values, each ranging from 1-400, corresponding to 216

specific letters in the 72 Triplets, do not randomly line up this way, and do not form **3** lengthy very coherent Torah verses describing G-d's actions in splitting the Red Sea unless an enormous amount of computational time and energy went into planning it. Just saying...

One Way

Since "G-d is One (*Hashem Echad*)," could there be One of those **705,432** different ways to split the **22** letters of the *alef-bet* that would reflect the numbers **42** and **72**, and the numerical value for Israel, **541**, and also be sequential? Also tie in that pesky remainder of **.054**? And maybe do even more, maybe a lot more? Indeed, there is, and it is the simplest one of all: Odds and Evens.

Using their ordinal (place count) values, we can split the **22** letters right down the middle into odds and evens, just like the Covenant of Halves, and just like the refrain in the *Sefer Yetzira*, "...with a single covenant right down the middle..."

א-ב

ג-ד

ה-ו

ז-ח

ט-י

כ-ל

מ-נ

ס-ע

פ-צ

ק-ר

ש-ת

There are exactly **248** ways to split the letters into the same **42** and **72** proportions, but they are not as simple and clean and not sequential. The number **248** will be very significant to us later

in the paper and we are suggesting that this is not coincidental. Neither is the fact that there are **120** of those ways that also yield the numerical value for Israel, **541**, which we will explain shortly.

In order to understand the letters, we must understand the language of the universe. Just as soon as there were Hebrew letters there were specific number values assigned to them. The assigned numerical values ascend from 1 to 10, then 10 to 100 and finally from 100 to 400 according to a set exponential curve. This is the inverse of a logarithmic curve as will become important much later in this paper.

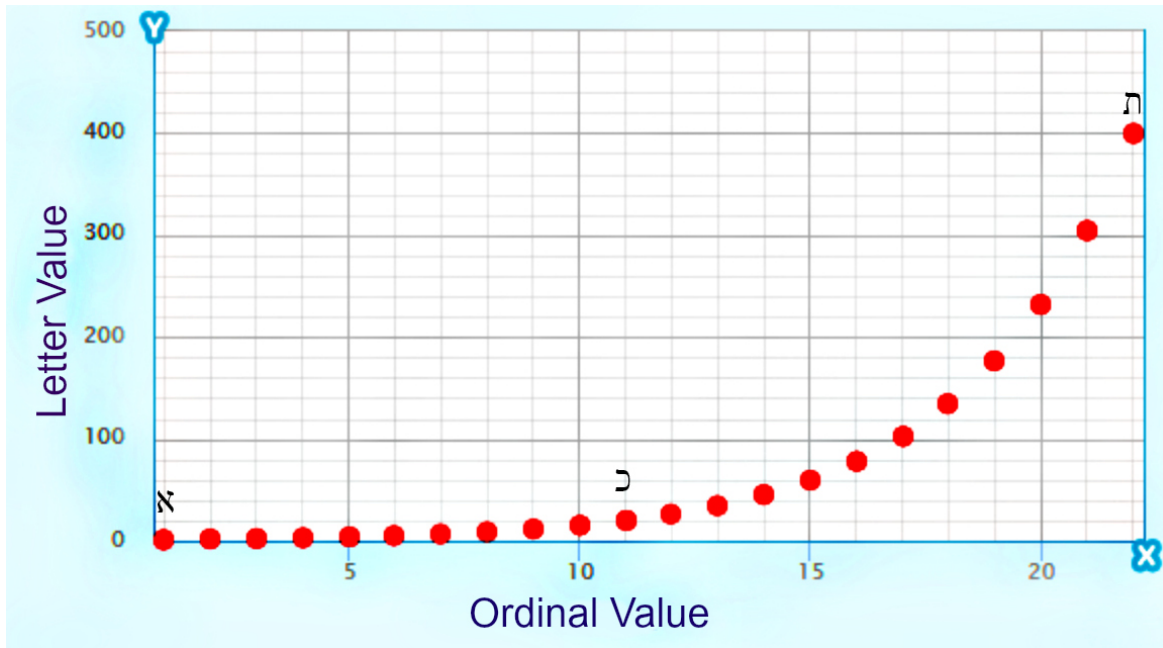
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From ? to ? and 1 to 400.

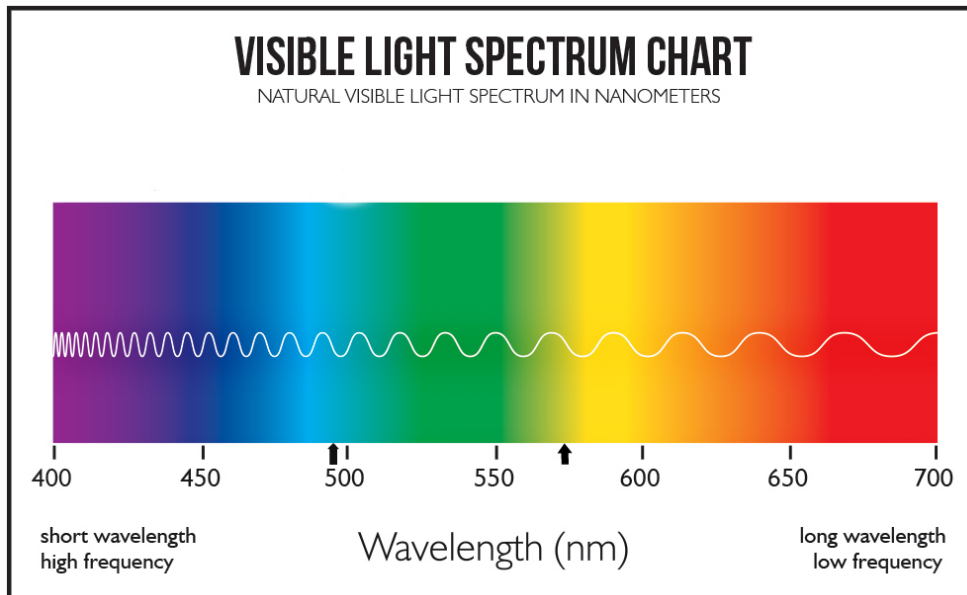
1-2-3-4-5-6-7-8-9-10-20-30-40-50-60-70-80-90-100-200-300-400

While we may think that assigning these values to the letters according to an exponential scale and using base 10 mathematics was very logical to the ancient Kabbalists it was a depart from the base 60 Babylonian counting system, and more significantly, it was far from random or arbitrary.











When we say the numerical values associated with each of the **22** letters are on an exponential scale, we mean they increase in value exponentially from letter to letter. In other words, they fit an exponential curve, such that $y = ab^x$ where y is our letter value (for example $alef = 1$) and x is the ordinal value of any of the **22** letters counted from **1 -22** (for example $alef(?)$ is 1, as the first letter), and b is the factor that guides the exponential rate of growth. This does not mean that every letter value falls directly on the curve, only that the curve (exponential model) closely fits the data (the letter values), and that the starting value (**1**) and ending value **400** for the letter tav (?) are directly on the curve and in this case, the **11th** letter caf (?) of value (**20**) is bang on as well. It is also the square root of 400 (tav) Astonishingly, in the case of the $alef-bet$, that exponent is **1.313**, which just so happens to match [the year 1313 BCE when the Torah was received at Mt Sinai](#) . That Mt. Sinai has a gematria value of **130**, and that **13** is the gematria value of $echad$ (One) is definitely most significant though we have a lot more to prove before we get there.



The Hebrew letters *Alef*, *Kaf* and *Tav* anchor the curve at its ends and midpoint, while the other letters are slightly above or below the curve. This is because they are representations of energy zones on a spectrum not fixed points, which believe it or not in mathematics is a very difficult concept. Think of the color green, there are an infinite number of wavelengths for it on the visible light spectrum, all falling within a zone of about 495 nm - 570 nm where the color takes over. The Hebrew letters are the same; they represent a narrow collective or bundle of similar energy frequencies, each letter at least as different from green as yellow is to green.



There is yet another reason we can state the values associated with the *alef-bet* are not arbitrary. Unlike English, these **22** Hebrew letters form the initials to their **22** names. For example, the letter *alef* (א) is spelled out (אָלֶפֶת), whose numerical value when we sum all 3 letters is **111**, in itself pretty symbolic for the **1st** letter of the *alef-bet*. While the example above is quite illustrative, there is a slightly different

900	800	700	600	500
				
Tsade	Fey	Nun	Mem	Khaf
				

gematria cipher that extends that exponential scale 5 more places from 22 to 27 letters because 5 of the letters (?????) take on a different shape when found at the end of a word, and thus the scale extends to 500-600-700-800-900. When we sum up the **22** irrational square roots of [the spelled out 22 names of the 22 letters, we get exactly 424.242...](#)

If you are a geek, or studied any kabbalah whatsoever, that an answer about the knowledge of the universe would tend to **42**, would not surprise you. That this sum of **22** irrational numbers, which should have been quite difficult (next to impossible) to calculate thousands of years ago, sums to exactly **424.242**, may raise your eyebrows a bit though. Nevertheless, if you are a geek and maybe a kabbalist too, you would know that the digit string ...**42424242**... occurs at digit #**242424** within the mathematical constant Pi (3.14....) and the symmetry with **424.242** is just a bit too contrived not to have been embedded there for some reason. It begs the question, though, how would anyone other than G-d have been able to embed that, or even have known about it 5000 years ago?

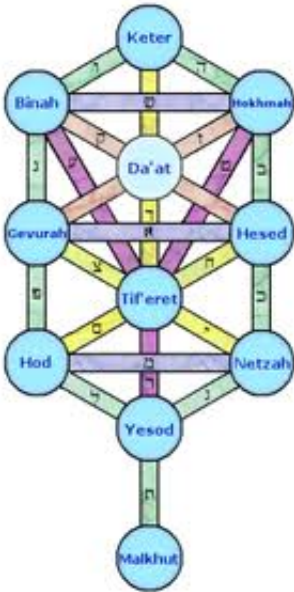
Or maybe G-d just loves algebra and knew that for $X \neq Y$ no other number satisfies $X^Y = Y^X$ than $4^2 = 2^4$. For now, we will only mention the obvious connection to the #**42**, and that **424** is the gematria value of "*Moshiach Ben David*."

We must pause and ask ourselves, before we go ahead and split the *alef-bet*, could these letters and counting system possibly have developed organically from pre-existing hieroglyphs as some would have you believe? With the little we have shown so far, the odds against that are astronomical. So who gave us the Hebrew letters and told us what their specific values and energy levels are?

The Hebrew letters are representations of different forms and levels of energy, according to the 10 *sefirot* (10-dimensional structure of the universe), and so too are the associated numbers assigned to them. This is why the relationships between them are extremely important to our understanding of the universe. This is also why they are directly related to all the core mathematical and physical elements of that universe, which we will soon prove.

The 10-dimensional structure of the universe is a modern and highly accepted concept of physics based on super string theory; it is also the basis of Kabbalistic thought, and was first described in the earliest kabbalistic writings, including Abraham's *Sefer Yetzirah* 3800 years ago. In it, Abraham spends a lot of time describing "the ten *Sefirot* of nothingness."

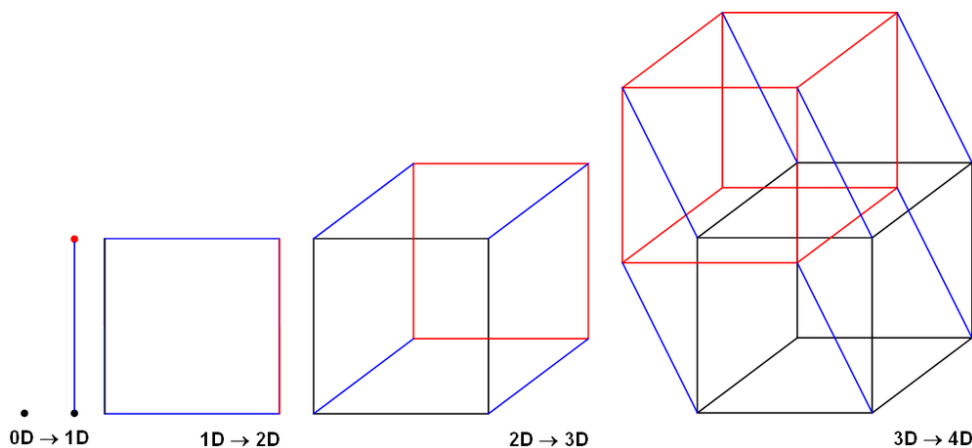
The predominant unified theory in physics for decades now has been the Super String theory, in which the smallest elements of matter are thought to be comprised of intertwining and bundled vibrating strings of energy set to 10 different levels of energy frequencies. Mathematicians have proven that this theory only works in a universe of 10 dimensions of space plus one additional one of time. There are dozens of ancient Kabbalistic texts that describe the same structure for the universe, including the addition of the 11th dimension in the tree-of-life, which they call *Da'at* (Knowledge).



Connecting the bundled Kabbalistic dimensions are the **22** pathways of the tree of life, each connected to a specific letter of the alphabet. Moreover, and oddly symmetric, is the fact that the 3 initials of the central core of the bundled *sefirot* of that tree-of-life (**Keter-Da'at-Tiferet**) total **424**. One could almost conclude that these early kabbalists had divine knowledge of the structure and workings of the universe.

Perhaps the alignment of the Hebrew alphabet with its beautiful exponential model and matching data points at the **1st**, **11th** and **22nd** letters is a cosmic symmetry with the **11** dimensions, or with the **11**-letter split we are about to show you. Or perhaps it is because of these **11** dimensions and the energies they represent that when the **22** letters are split in two, we get two juxtaposed sets of **11** letters, which when split just the right way tell a very compelling and revealing story.

That is a supposition we have yet to prove to you. What can show right away is that the **22** letters (levels) were formed in accordance with the **10**-dimensional structure of space that they occupy. To keep it simple, every power of 10 represents a different dimension with 10^2 presenting a square and 2 dimensions and 10^3 representing a cube and 3-dimensional space. Every time we increase or decrease the exponential power of 10, we are either ascending or descending a level of dimensionality.



For this illustration we could start with any power of 10, but by starting with the kabbalistically

complete number **1000**, symbolizing **10 x 10 x 10** or **10³**, we are conceptually utilizing the kabbalistic concept of balance within the **3**-column system. This system's natural counterpart is the Proton-Neutron-Electron structure of the atom. It makes no difference whether we use **100** (**10²**); **10** (**10¹**); **1** (**10⁰**); or any result of raising **10ⁿ** when **n** is an integer. Whenever we reduce any power of **10** by one order of magnitude in increments of **10%** it will always take **22** iterations or **22** steps to get to the next level. To go from one dimension down to the next takes **22** steps:

1000

1. 900
2. 810
3. 729
4. 656.1
5. 590.49
6. 531.441
7. 478.2969
8. 430.46721
9. 387.41589
10. 348.674301
11. 313.806871
12. 282.426184
13. 254.183565
14. 228.765209
15. 205.888688
16. 185.299819
17. 166.769837
18. 150.092854
19. 135.083568
20. 121.575211
21. 109.41769
22. 98.4759212

It took **22** steps to get down to the 100 threshold, one order of power (**10³**, **10²**). If we were to continue another **22** steps of reduction by **10%**, we would just cross the 10 threshold, and another **22** steps to get to 1, and so on and so forth. Therefore, it is obvious the numbers, or number of elements, **10** and **22**, are mathematically intertwined.

Part II will follow shortly, in which we actually split the *alef-bet*.

Shabbat Shalom and Chodesh Tov!