

## QUADRIVIUM

### THE UNIVERSAL TRANSMISSIONS

The trivium consists of grammar, logic, and rhetoric, while the quadrivium consists of number, astronomy, harmony, and geometry. The Trivium is about knowing who you are, and the Quadrivium is about knowing where you are.



The Quadrivium is the intellectual discipline of classical education consisting of Number, Geometry, Harmony, and Cosmology. In ancient times, this study was taught as the Tetraktys, to enable the mind to become a channel through which an individual could receive the abstract forms of the cosmic life.

The goal of studying Quadrivium was to achieve Unity through simplification based on the understanding gained by engaging in each area of the Quadrivium. Quadrivium classifications of mathematics were based on hierarchical

dimensions, starting with arithmetic, then geometry, astronomy and finally music or harmony.

### THE KEY TO QUADRIVIUM

The key of this knowledge is the ability of an individual to remember:

- You are a cosmic being from the origination of your energy throughout all time and space.;
- When you die you do not disappear, you retain your unique cosmic identity;
- You are on a cosmic journey that deals with the evolution of consciousness and spirit;
- You are an integral part of the Universe; The Universe leans in your direction;
- Your thoughts, emotions, beliefs, actions and words are profoundly important to the evolution of the Universe;
- Your worth and importance is measurable beyond value;
- You are not a victim to a cold, random, meaningless Universe;
- You are a cosmic soul – a Higher Cosmic Self – and this self wants you to remember who you are so that you can live the meaningful life that is your birthright.

### THE QUADRIVIUM: NUMBER, GEOMETRY, HARMONY, COSMOLOGY

NUMBER: the study of value

The purpose of teaching numbers is to show the relationship of numbers to shapes, that these designs illustrate basic principles, which lead the mind into the habits of reason. Therefore, numbers as proportion and principle, should never be separated from the concept of geometric form.

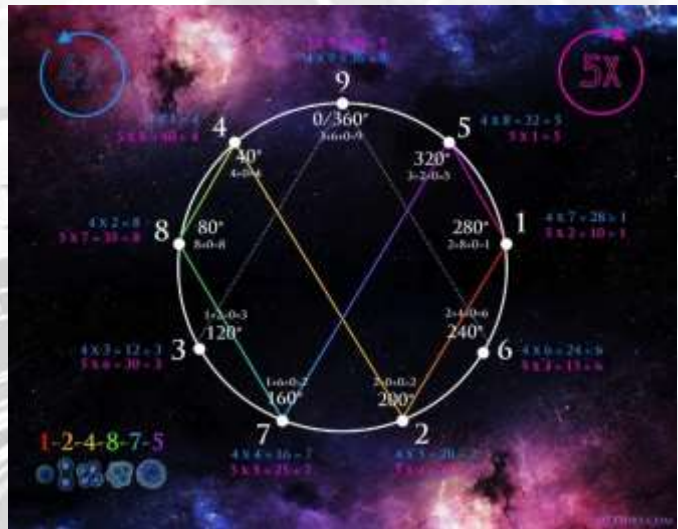
A whole number is called a 'quanta'. The study of quanta deals with: factors, ratios, triangular, square and cubic numbers, prime and perfect numbers, and the way numbers appear in sequences such as the Fibonacci and Lucas sequences.

There are three levels to Number. These are:

- The materially numbered
- The mathematician's number (indefinite)
- The Ideal or Archetypal Number (complete at 10)

Number continuity really only progresses through a wave-like alternation (odd-even), that there are no discontinuous magnitudes nor discrete parts, that a unit can never exist outside of a contiguous form/flow...in other words, number logistics were based on harmonic motion, the unit finds its expression not as a particle, but rather as a wavelet. Thus the limit becomes a perceptual limit of vibrational experience, not a material one, and limit is reached through consciously heightened perception rather than through the analysis of matter.

Numbers are not just mere quantities. Each has its own unique quality, archetype, and behavior. The bedrock of the Quadrivium, Number structures our conceptual waking reality. "All is Number". *If you only knew the magnificence of the 3, 6 and 9, then you would have a key to the Universe.*



Number was not invented, but discovered. We use commonly agreed upon symbols to represent quantities. The symbol we use for one of something is 1, for two of something is 2, and so on. It's not like we made up the concept of one and two, this is inherent in our reality. We merely assigned symbols to represent these universally conceptual understandings of quantity, which intrinsically contain quality.

**VEDIC-SQUARE MAGIC**

1	2	3	4	5	6	7	8	9
2	4	6	8	1	3	5	7	9
3	6	9	3	6	9	3	6	9
4	8	3	7	2	6	1	5	9
5	1	6	2	7	3	8	4	9
6	3	9	6	3	9	6	3	9
7	5	3	1	8	6	4	2	9
8	7	6	5	4	3	2	1	9
9	9	9	9	9	9	9	9	9

This is the multiplication table after you reduce the result to one digit, i.e.  $3 \times 4 = 12 = 3 (1+2=3)$ . Reducing a number to one digit is known as Kabbalistic reduction or Pythagorean addition. Doing this reveals patterns in the numbers themselves, which are what make up our Universe.

'All is number' -Pythagoras

Ancient vedic yogis and egyptian philosophers conceptualized Number from zero to nine in deep meditation. Nine was the tipping off point, the number every civilization decided to start over with a new glyph, character, or symbol. They discovered reality itself operates in base-10 in the way it is conceptually organized. (Remember there are Nine numbers in Base-10, Zero is the absence of Number). Nine is the unsurpassable limit, the utmost bound, the ultimate extension to which the archetypal principles of number can reach and manifest themselves in the world. The ancient Greeks called nine "the horizon," as it lies at the edge of the shore before the boundless

ocean of numbers that repeat in endless cycles the principles of the first nine digits. Nothing lies beyond the principles of nine, which the Greeks called the Ennead.

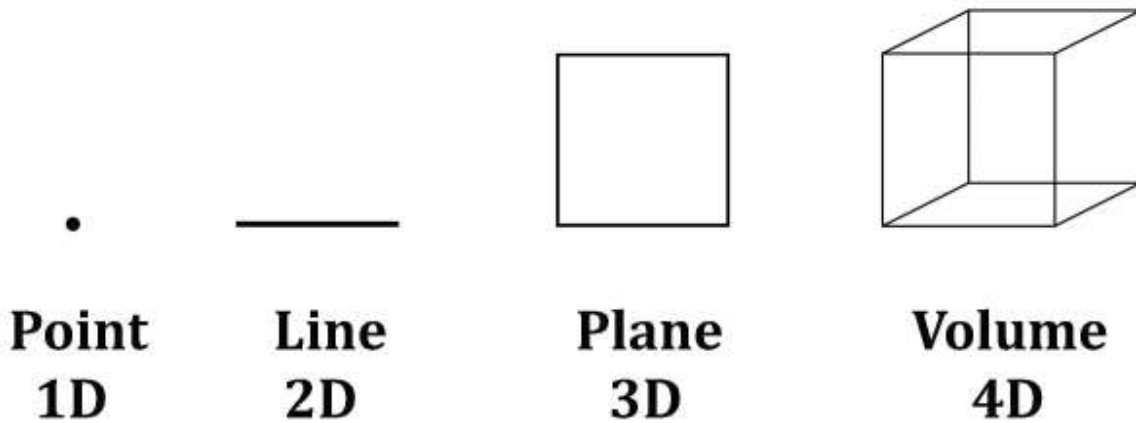
GEOMETRY: the study of value in space

Sacred Geometry charts the unfolding of number in space. It differs from mundane geometry purely in the sense that the moves and concepts involved are regarded as having symbolic value, and thus, like good music, facilitates the evolution of the soul. Geometry explains how the “Elements” of Geometry are used to prove every “Proposition” presented in the study. The quadrivium teaches us the parts of which Propositions are composed and how they may be identified. It’s important to remember that all propositions do not have all of these parts, but that three will be found in all.

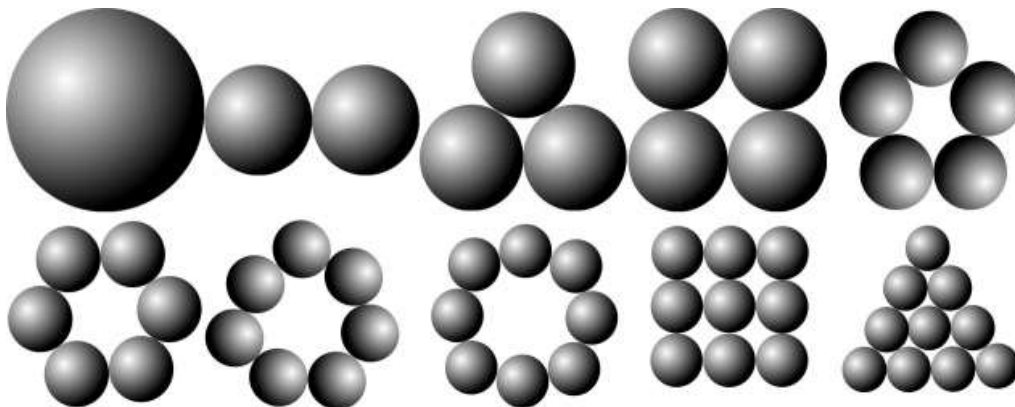
Pure geometric Form is to symbolic, utilitarian and natural form as pure sound is to language and music.

Geometry is the order of space as ‘Number in Space’. It unfolds in four stages:

- The non-dimensional point ( $\infty$ )
- The line (1D)
- The plane (2D)
- Volume (3D)



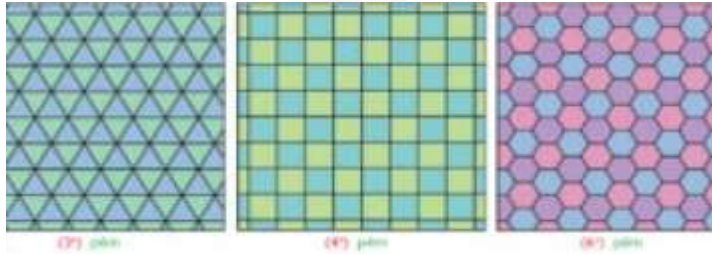
Arithmetic is geometry in pebbles



Using only perfect polygons (perfect meaning all sides and angles equal) geometry consists of:

- Three regular grids

- triangle, square, hexagon

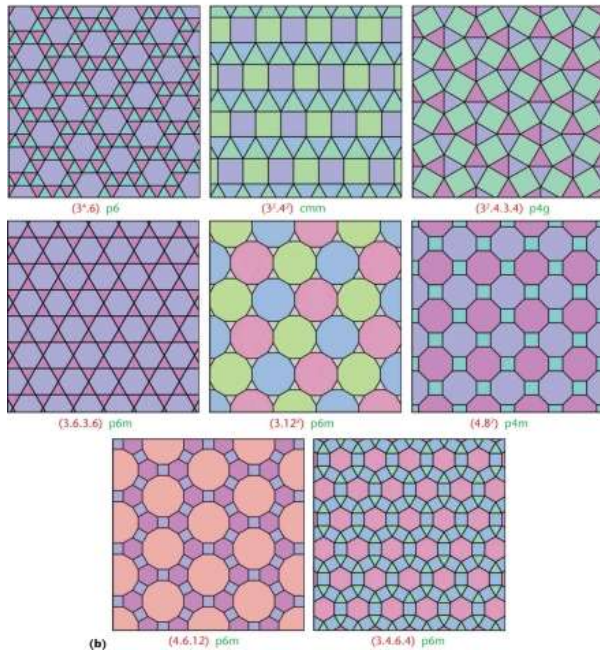


- **Five regular solids (Platonic Solids)**
- tetrahedron, octahedron, cube, icosahedron, dodecahedron

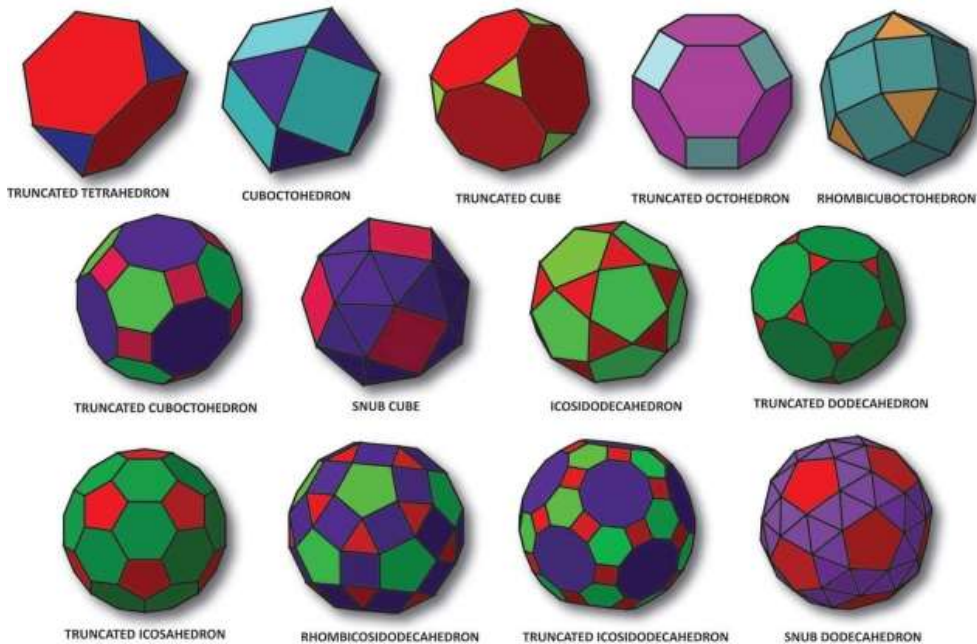


- **Eight semi-regular grids**
- hexagon/triangle/cube; hexagon/cube/dodecagon; triangle/cube (1 & 2); triangle/hexagon (1 & 2); triangle/dodecagon; octagon/cube





- **Thirteen semi-regular solids (Archimedean Solids) and their duals (13 Catalan Solids)**
- snub tetrahedron, truncated octahedron, cube octahedron, truncated cube, rhombicuboctahedron, great rhombicuboctahedron, snub cube, truncated icosahedron, icosidodecahedron, truncated dodecahedron, rhombicosidodecahedron, great rhombicosidodecahedron, snub dodecahedron



Incidentally, 3, 5, 8, and 13 are all Fibonacci numbers.

In the hierarchy of arts, geometry ranks equal to music, expressing through visible shapes the same numerical proportions as musical harmonies present to the ear...These proportions were not derived directly from music, but rather from a common source in number as a symbol of the divine Creation.

HARMONY (Music): the study of value in time

Harmony is 'Number in Time'. It refers to frequency and harmonics. The Laws of Harmonics are considered to be universals which define the relationship and interchanges between the temporal movements and events of the Universe and the spatial order and development of the planets.

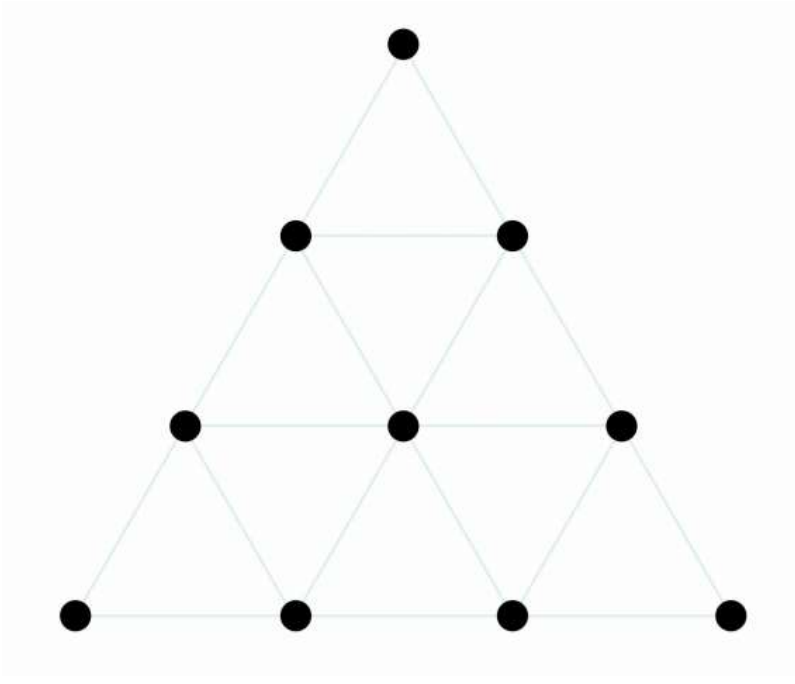
Simple ratios exist between periods or frequencies:

- 1:1 – unison
- 2:1 – the octave
- 3:2 – the fifth
- 4:3 – the fourth
- The frequency of the fifth differs from that of the fourth as 9:8 – the value of the tone which gives rise to the scale.

Harmony displays four musical scales:

- pentatonic – 5 notes (white keys of the piano A C D E G)
- diatonic – 7 notes (white keys of the piano A B C D E F G)
- chromatic – 12 notes (white and black keys of the piano C C# D D# E F F# G G# A A# B)
- shruti – 22 notes

The key to harmonic ratios is hidden in the famous *tetractys*, or pyramid of 10 dots. The *tetractys* made up of the first four numbers – 1, 2, 3, 4 – which in their proportions reveal the intervals of the octave, the diapente (perfect fifth), and the diatessaron (perfect fourth).



There are seven modes, or keys, of the Greek system of music that have the power to incite or allay various emotions. Our human health and mind are like a well-tuned cithara (a stringed instrument, precursor to the guitar). These ideas of health, harmony and music are also related to the tuning of the chakras.

The ratio of 2:1 is known as the octave (8 tones apart within a musical scale).

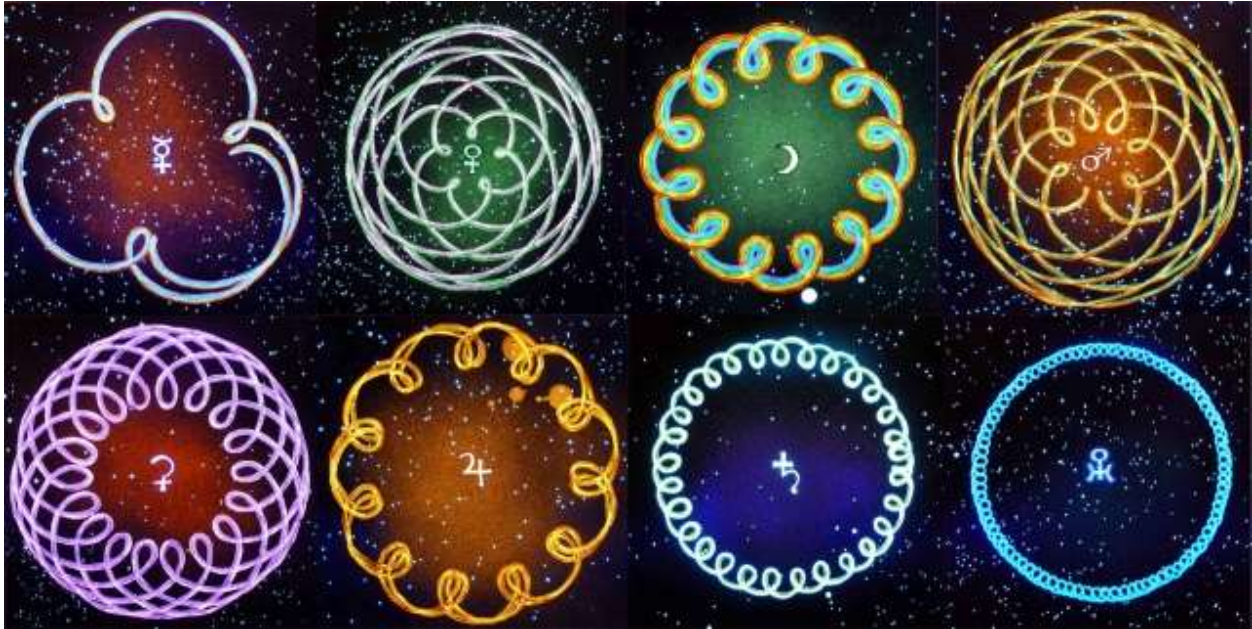
When the frequency of one tone is twice the rate of another, the first tone is said to be an octave higher than the second tone, yet interestingly the tones are often perceived as being almost identical. For example, a woman's voice may fluctuate around 220 Hertz while a man's voice is around 110 Hertz, approximately half the frequency of the woman's. However, if they sing together, it may sound as though they are singing the same melody together in unison, even though they are actually an octave apart. This 2:1 ratio is so elemental to what humans consider to be music, that the octave is the basis of all musical systems that have been documented – despite the diversity of musical cultures around the world. Moreover, this physical phenomenon is so fundamental that even non-human species such as monkeys and cats recognize it.

**COSMOLOGY (Astronomy):** the study of value in time and space

Cosmology or Astronomy is 'Number in Space & Time'. The word cosmos means order and adornment. *Order* meaning the arrangement of things in relation to each other according to a particular sequence, pattern or method. *Adornment* meaning adding grace, beauty, or honor.

The cosmos were viewed as an adornment of pure principles, the number of visible planets relating to the principles of proportional harmony. The study of the perfection of the Universe was a way of perfecting the movements of one's own soul.

The Cosmos of the solar system was traditionally studied and it was believed one would find profound harmony in the geometry and mathematical ratios of the orbits of the sun, the planets, and their respective moons and the lessons they offered for spiritual evolution of human beings.



The Cosmos was considered divine, true and beautiful order held together harmoniously by bonds of amity, reciprocity and affection or sympathy. The Cosmos is much more than just the universe. It includes the idea of beauty, order or goodness, and structural perfection which we might call truth. All of these are held together by the prior principle of unity, which, manifesting as Cosmos – one mass of Life and Consciousness– becomes a teaching of the harmony, sympathy and kinship of all things – a universal interrelationship and interdependence: a harmony...and divine order, incomprehensible in itself but presiding over all things.

MEDITATION

<https://www.youtube.com/watch?v=S1Wof-x6gmw>



