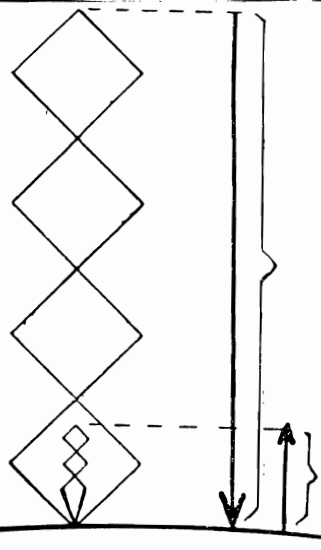


When we consider once more the picture of these formative rhythms from without inward, this sublime system of laws within the spheres of the formative forces, we recognize that the first billow of five forces created the spheres of Saturn, Jupiter, Mars, Sun; the second created the spheres of Mercury, Venus, Moon to the Earth; the third led to the integration of the outer, purely etheric terrestrial envelope; the fourth led to the integration of the outer earth (warmth envelope, atmosphere, hydrosphere, solid earth); the fifth led to the integration of the inner earth.

Five times does the mighty wave of formative forces take a new releasing and impelling in each of the created spheres number-ly rhythms. Twice are the waves repeated in the same manner; but they reverse themselves three times, - in the transition from the terrestrial regions into the outermost etheric sphere of the earth; (wave); again in the transition into the atmospheric outer earth; a third time in the transition into the inner earth.

If we now investigate the effects of these cosmic formative forces, for example, upon the growth of plants upon the surface of the earth, we bear in mind that the life process of the plant, as already set forth in Volume I. p. 64, presents a thrice repeated rhythm of expansion and contraction. But this threefold rhythm in plant growth is only a reflection of that four-fold rhythm in alternation of the expanding and contracting forces, as this holds sway in the planetary spheres of the outermost sphere all the way to the surface of the earth (p. 8). If we perceive in each such alternation from expansion to contraction a breathing rhythm of the cosmos, we then recognize four breath-rhythms which roll inward from the outermost spheres of the formative forces of the cosmos to the surface of the earth, and are there partly reflected and released in the reverse direction in three breath-rhythms of plant growth. Thus seven breath-rhythms of the formative forces in the interplay of cosmos and earth cause the creation of a plant on earth. The planetary constellations thus exert naturally an important influence in the differentiation of plant growth. We now understand why the primeval wisdom spoke of the "breath of Brahma", and Christian wisdom of the "breath of God" as the giver of life. This process may be represented pictorially as follows:



vier Atmungs-
rhythmen des
Kosmos

Four breath-rhythms
of the cosmos.

drei Atmungs-
rhythmen des
Pflanzenwachs-
tums

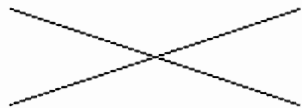
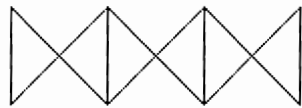
Three breath-rhythms
of plant-growth.

CREATIVE MATHS

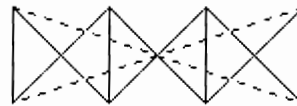
A 'Sutraic' Model

This is 'very draft' 23 may 2000

When we first read the proposed Sixteen 'Ganita' Sutras two groups of four. Having read through the Treatise and obtained a list of all the likely candidates, this is just how they seemed. If we number them one to eight as S0, S1, S2 etc. we can 'model' them Urdhva Tiryak (multiplication application) as follows - we find that we have the Eight *Sutras* and Sixteen Connecting Lines:-



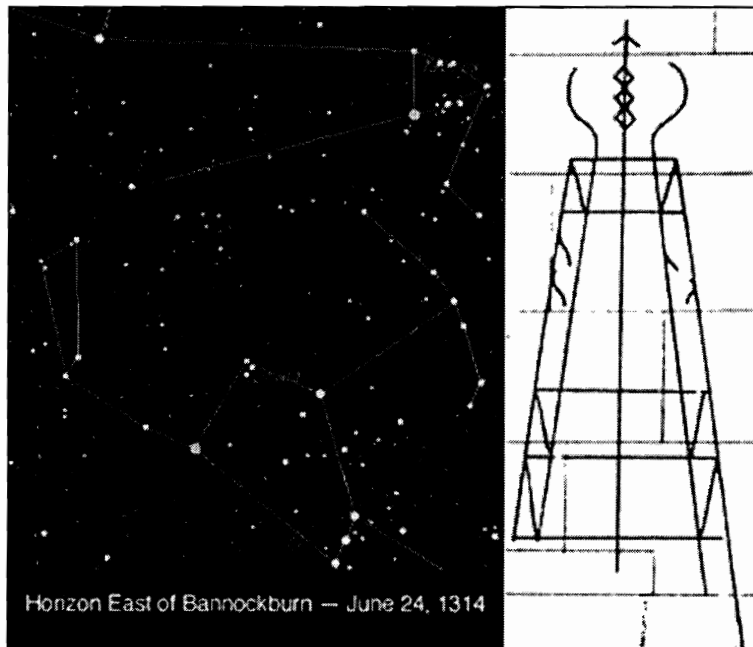
Sixteen Urdhva Tiryak steps



Nikhilam - 'All from three'

We can obtain a connection formula for four *sutras* times four *sutras* using Nikhilam by saying 'All from 3' as follows:-

$$\begin{array}{r} \text{(Three)} \\ \text{All} \end{array} * \begin{array}{cccc} (3 & 3 & 3 & 3) \\ 0 & 1 & 2 & 3 \end{array}$$



On a wall of Rosslyn Chapel's underground crypt, the oldest and holiest structure in the building, is what's been called a "working Masonic drawing." It is shaped more like an obelisk than a pyramid, and yet it sang a siren song to me. The central line of the drawing passes through three pyramids—as viewed from above!

Why despoil a holy place, forever, with a drawing that could have been more easily scratched in dirt? Is that not curiouiser still?

When it is visible, Orion is the most spectacular constellation in the sky—and little wonder. Of all the constellations, Orion is the least abstract—and is strikingly humanoid in shape. But of all its seven main stars, the belt stars have received the lion's share of attention over the millennia. Called simply "three in a row" by native North Americans, their relative positions have been recently correlated, by researcher Robert Bauval, to the groundplan of the pyramid complex at Giza.

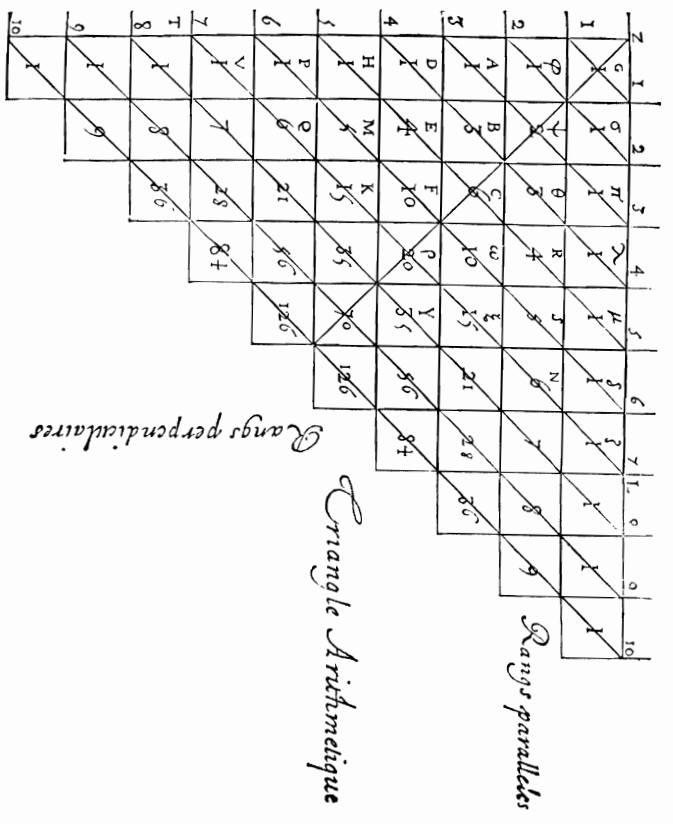
Orion and nearby Sirius, the brightest star in the sky, are inextricably linked to both the ancient Egyptian belief system and the mysterious symbolism inherent in today's bizarre Freemasonic rituals, practiced since the brotherhood's earliest days, but now little understood—even by Freemasons, themselves.

Could the key to what has long been referred to as "The Lost Secrets of Freemasonry" have been hidden in the light of day, east-southeast of Bannockburn, on June 24, 1314?

On a wild hunch, I decided to bring Orion and Sirius down to Earth,

Pascal's Arithmetical Triangle

A. W. F. EDWARDS, Sc. D.
 Reader in Mathematical Biology, University of Cambridge
 Fellow of Gonville and Caius College



Pascal's original Arithmetical Triangle, from the *Traité du triangle arithmétique* (1665)

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	Z	1	2	3	4	5	6	7	L	8	9	10
1	G	σ	π	λ	μ	ς	ζ	η	θ	ι	κ	λ
2	φ	ψ	θ	ρ	ς	ν	ξ	ο	π	ρ	σ	τ
3	A	B	C	ω	ξ	21	28	36				
4	D	E	F	ρ	Y	36	84					
5	H	M	K	35	70	126						
6	P	6	21	56	126							
7	V	7	28	84								
8	T	8	36									
9	I	9										
10	I											

Rangs paralleles

Triangle Arithmetique

Rangs perpendiculaires

Pascal's original Arithmetical Triangle, from the *Traité du triangle arithmétique* (1665)

