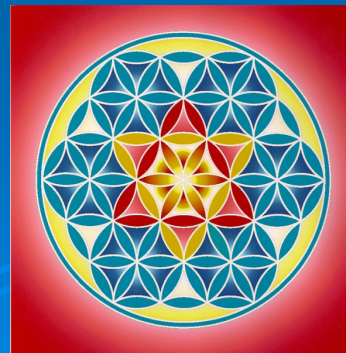
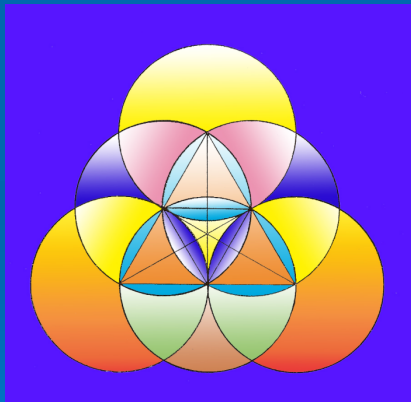
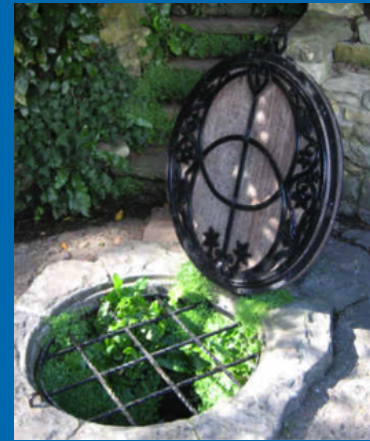
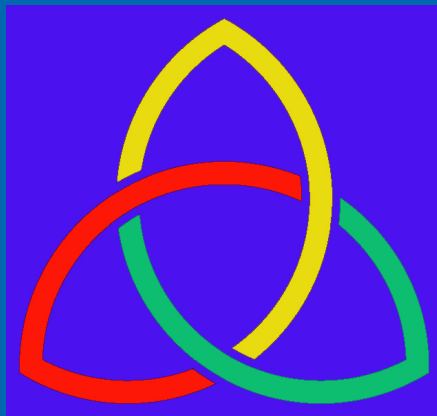


SG108.1a The Vesica Piscis: Womb of Creation

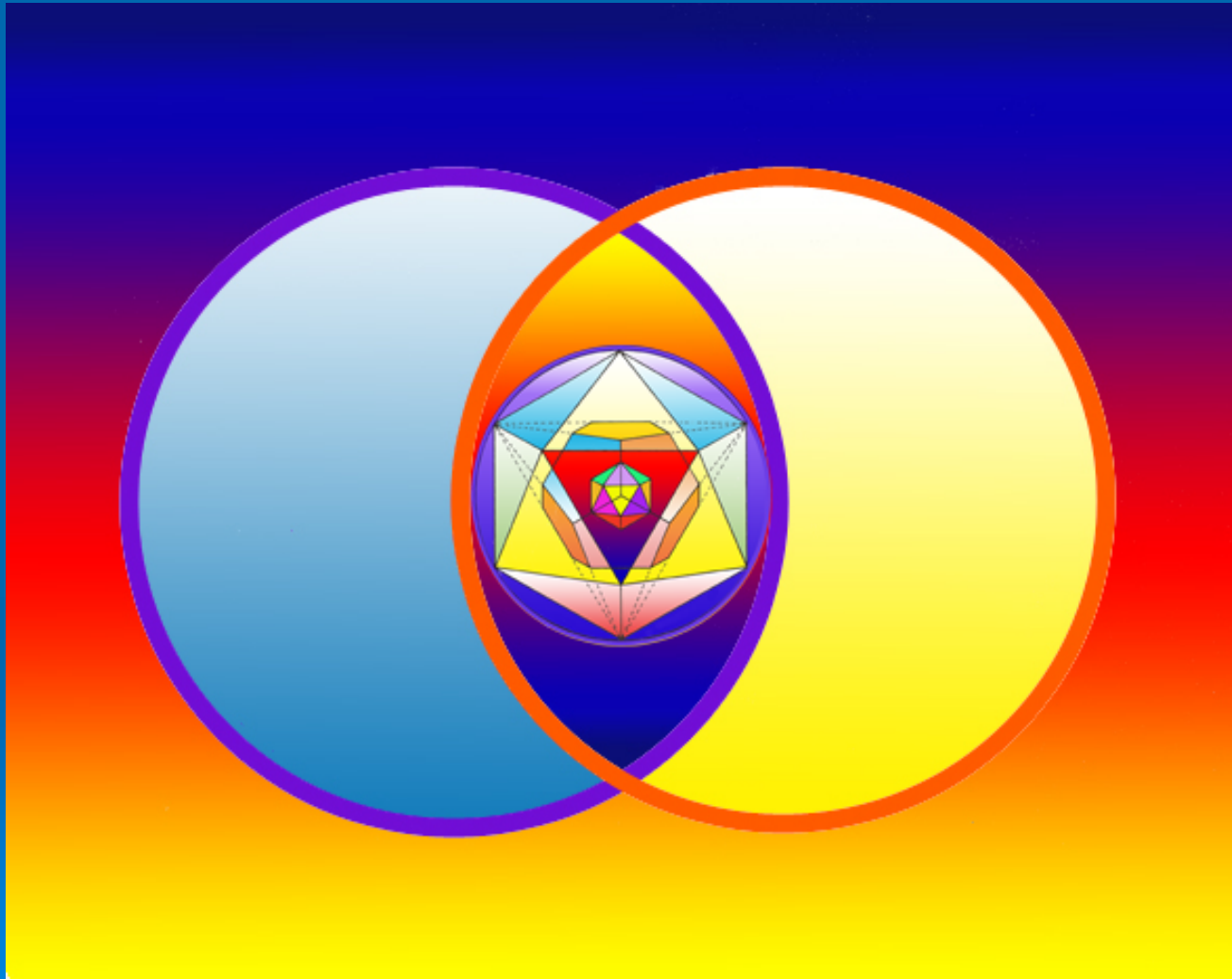
Online Module SG108 Intro VIII



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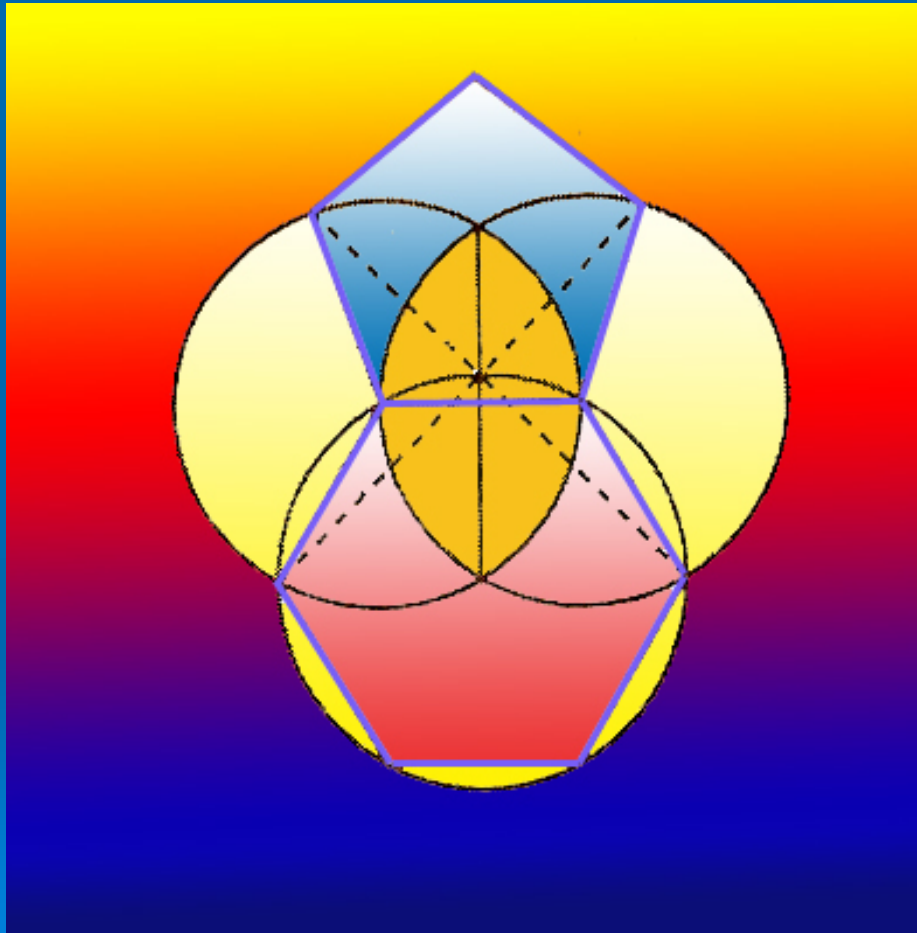
SG108.1b The Vesica Piscis: Womb of Creation



SG108.Ic **The Vesica Piscis** - Contents

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SG108. Id. The Vesica Piscis



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images, diagrams...)

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SG108.1e The Vesica Piscis Intro



While PHI, the Golden Ratio, and its cascading Golden Spirals, are the fractal dynamics of the Universe, the Vesica is its most creative shape.

The archetypal geometry and shape of the Vesica have, traditionally, been described as the *Womb of the Universe*, because the Vesica embodies and manifests the principle of Growth.

The Vesica shape is close to a bud or a flower petal nurturing & preparing the birth of the fruit and the new seeds.

SG108.1 Chapter 1. The Vesica Piscis



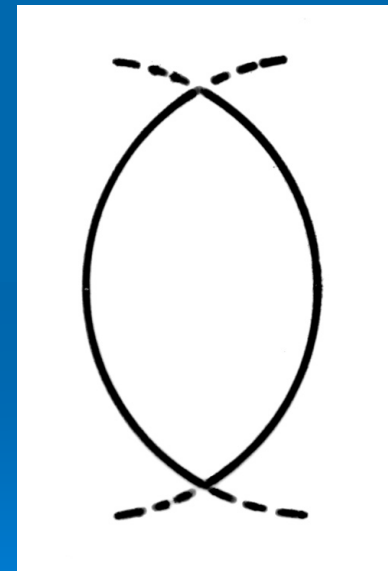
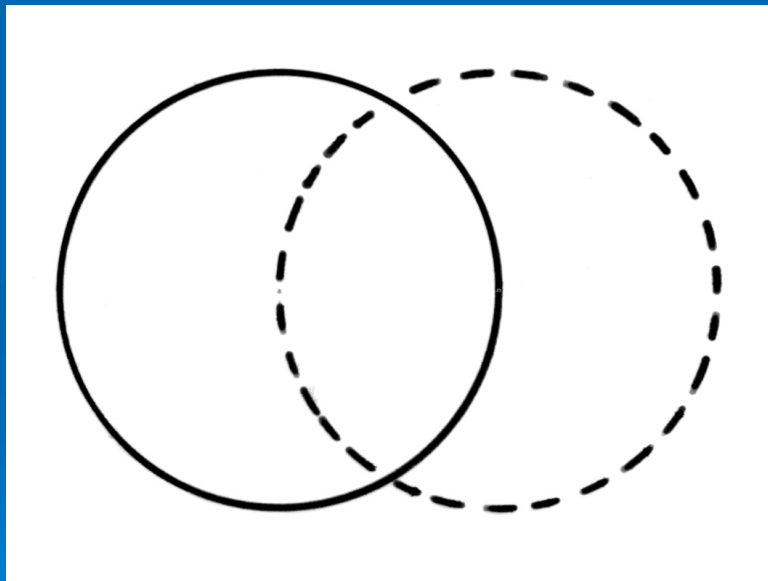
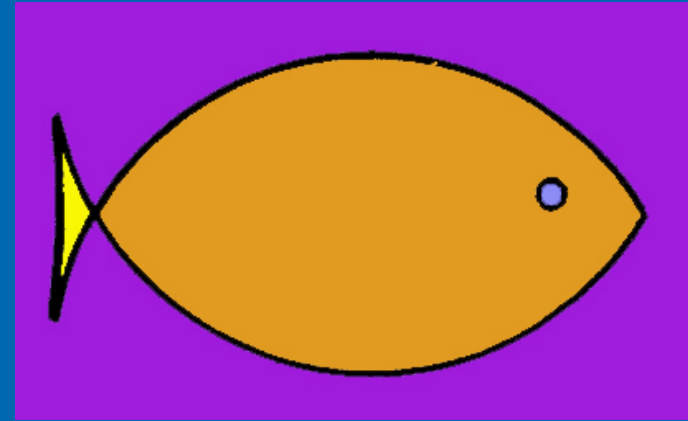
StarWheel #113
"Ja-Ya-Yon"
(background)

SG108.1.1.1 The Vesica Piscis (1)

(In Latin, *vesica* = bladder + *piscis* = of the fish)

Biology note: "Bony fishes have a swim bladder, which serves as a buoyancy organ. By secreting gases into the bladder or by absorbing gases from it, these fishes can change their density and thus go up and down in the water."

Biology textbook. Sylvia Mader. *Inquiry Into Life*. 1994.

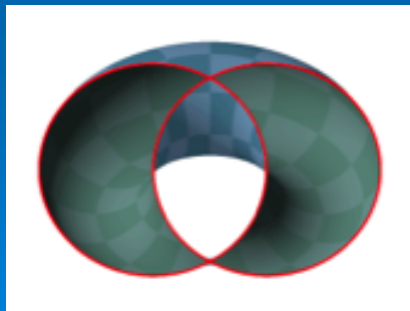


A Vesica is a bi-convex lens produced by the half-step displacement of a circle.

SG108.1.1.2 The Vesica Piscis (2)

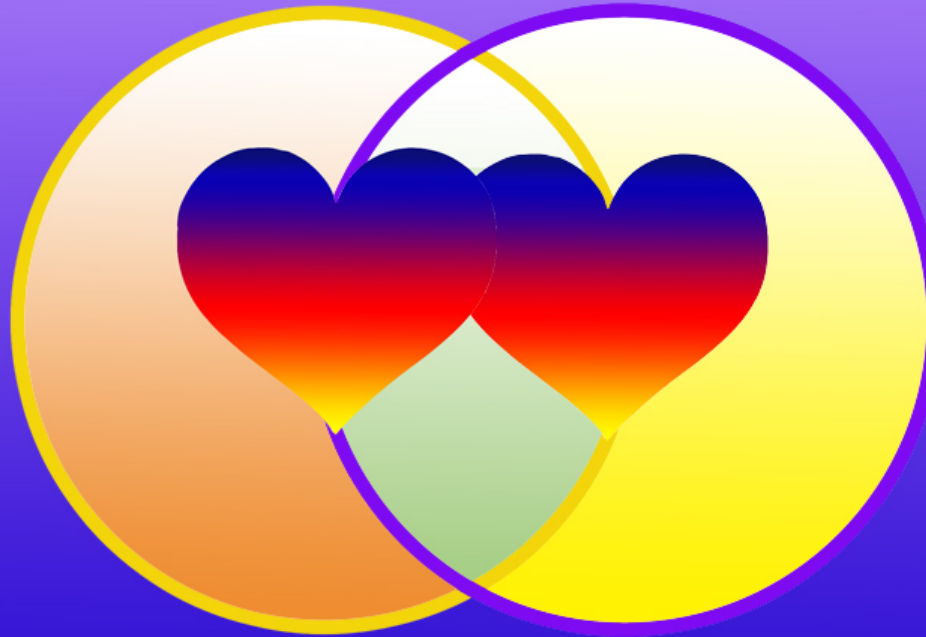
The Vesica is a special case of circle-to-circle interaction whereas a “*lens*” is formed by equal circles (or spheres) intersecting each other through their centers.

The Villarceau Circles are a pair of circles produced by cutting a *torus* diagonally through the center. They form a Vesica.



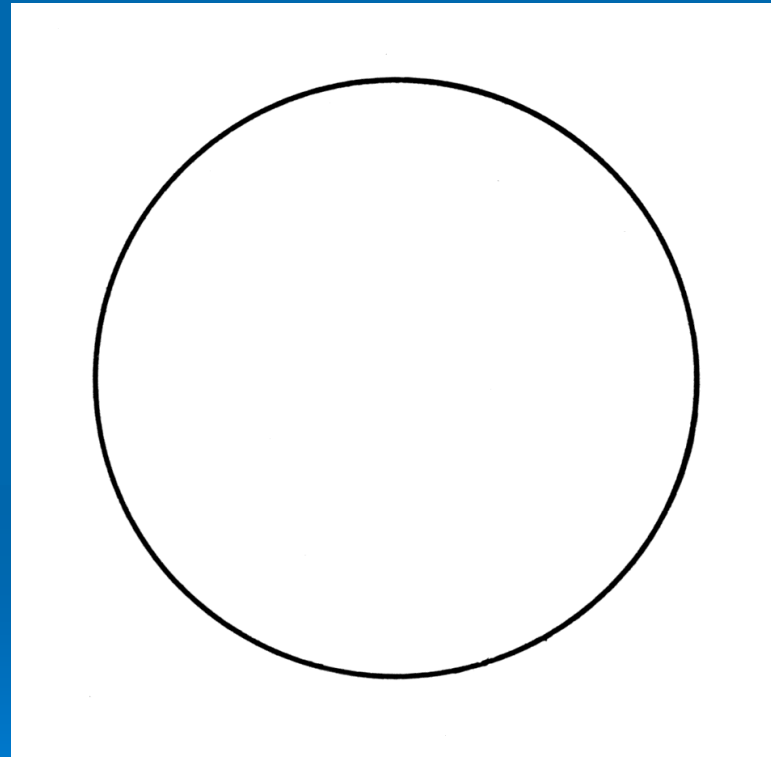
SG108.1.1.3 The Vesica Piscis (3)

The two circles/spheres are sharing their own radius as the width of the Vesica.
It is like two people reaching to each other's hearts.



SG108.1.2 Vesica Experiment

When you gaze at a circle, if you let your vision go “soft” and play with crossing your focus, you will have a tendency to overlap your right eye and left eye perception... .. and you will SEE a Vesica...



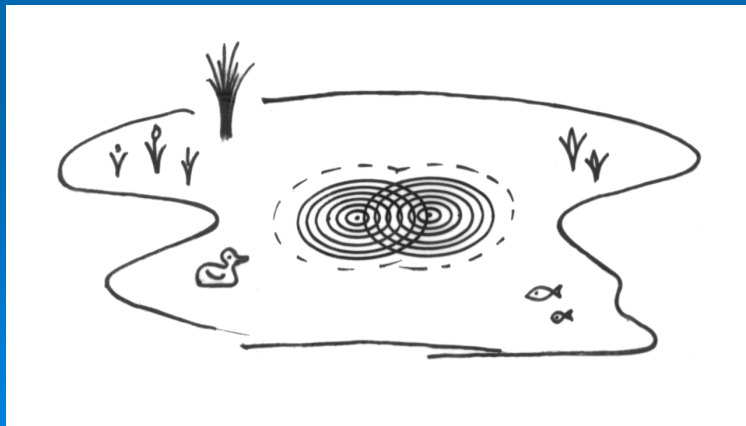
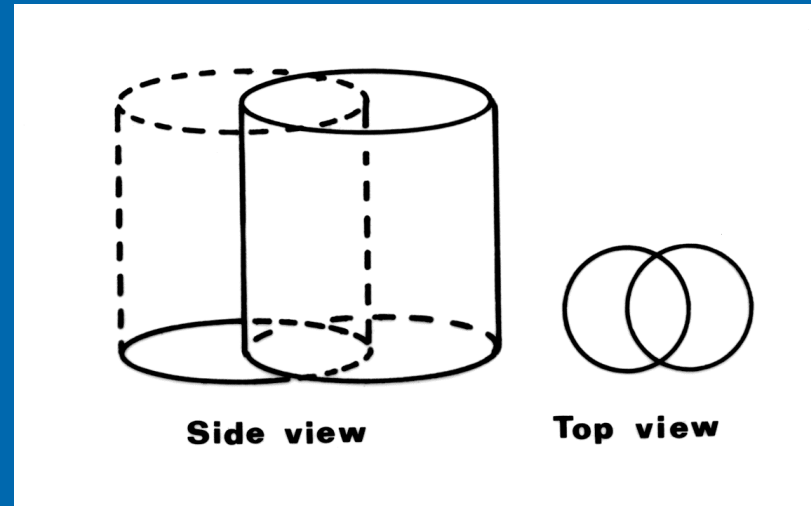
*This is the result of focusing in front (or in back) of the normal plane of vision.
Stereograms are using this technique to create 3D pop-ups. (◆SG101.4.)*

SG108.1.3.1 Home-made Vesicas (1)

When sitting at your dining table, take your glass or cup and press its round base on the tablecloth - that's one circle.

Then move the cup half a step and press it down again...

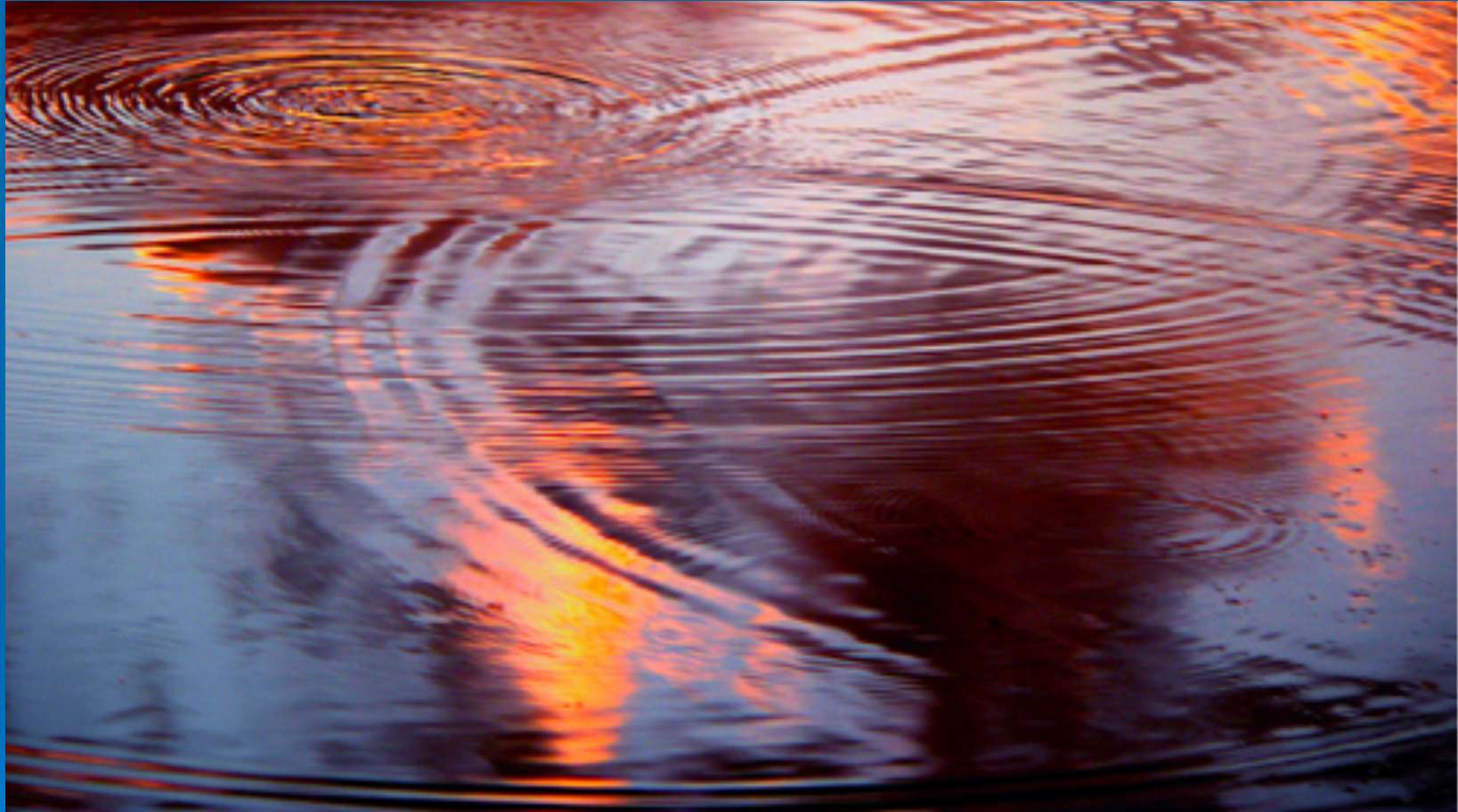
... that's your dining table Vesica.



When you are near a pond, a river or your bathtub, take a pebble in each hand and drop them *at the same time*...

... among the interference rings, you will see a perfect Vesica...

SG108.1.3.2 Home-made Vesicas (2)



Credit: Michael Moon
www.thetempleofsound.com

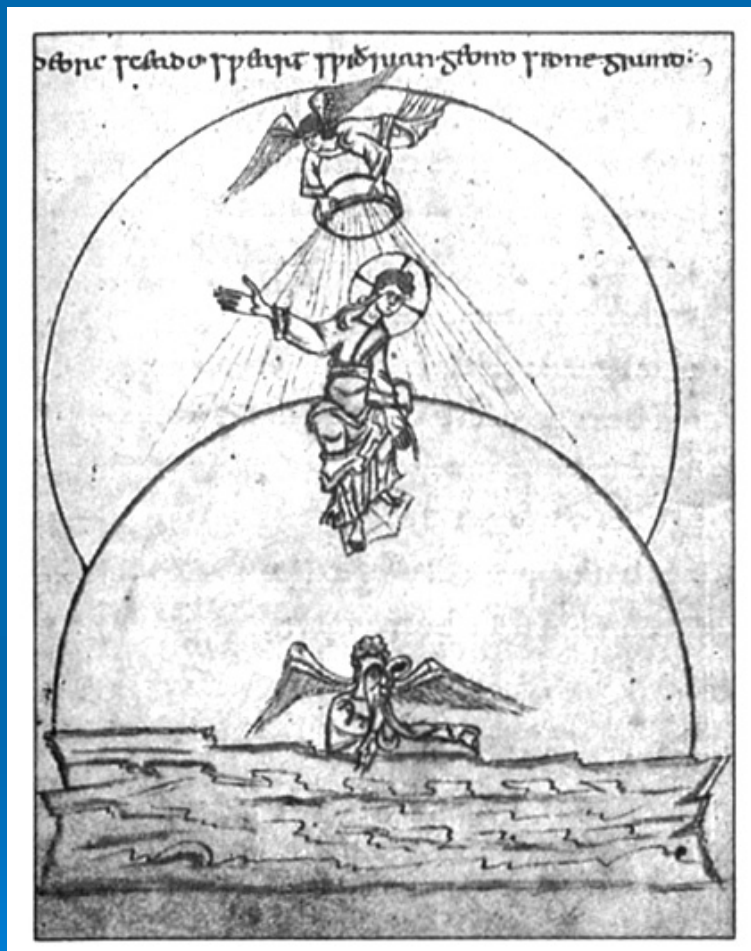
SG108.1.3.3 Home-made Vesicas (3) Vesica Mudra

Here is the magnificent Vesica Mudra
posted on www.crystalinks.com/fingersvesicafirewater.jpg

Try it!



SG108.1.4.1 The Vesica Piscis - A Cosmo-Genesis (1)



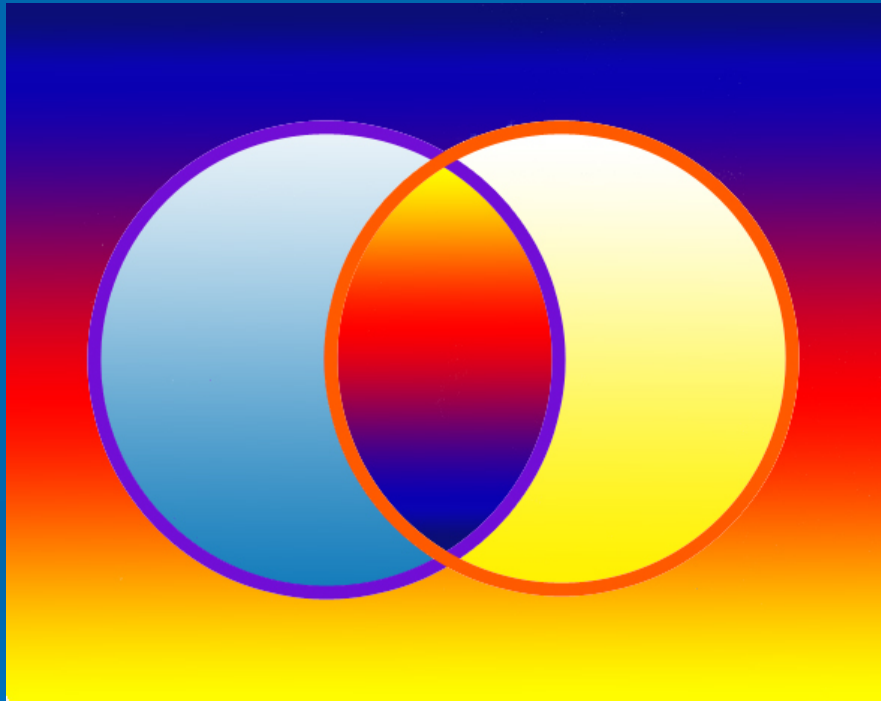
“The first day of creation”
Miniature of the 11th century.

Also called *Mystic Almond*, *Mandorla* (“almond” in Italian), *Stargate* or *Cosmic Yoni*..., the Vesica is the essential step in Cosmo-Genesis, as the Primordial Sphere (Monad or Divine Source) begins to “look at itself” and starts differentiating into “another itself”.

In terms of Sacred Geometry genesis, the two circles forming the Vesica are the Cosmic Parents: the Father-God and the Mother-Goddess.

From the Primordial Sphere extending itself half way as the “Other Parent” comes the Womb (“Creative Void”) to conceive and birth the Child or Manifested Universe.

SG108.1.4.1 The Vesica Piscis - A Cosmo-Genesis (2)



*“When the Circle of God’s Circumference
touches the Center of your individual Circle of Creation,
the Vesica is formed”.*

Jain. www.jainmathemagics.com

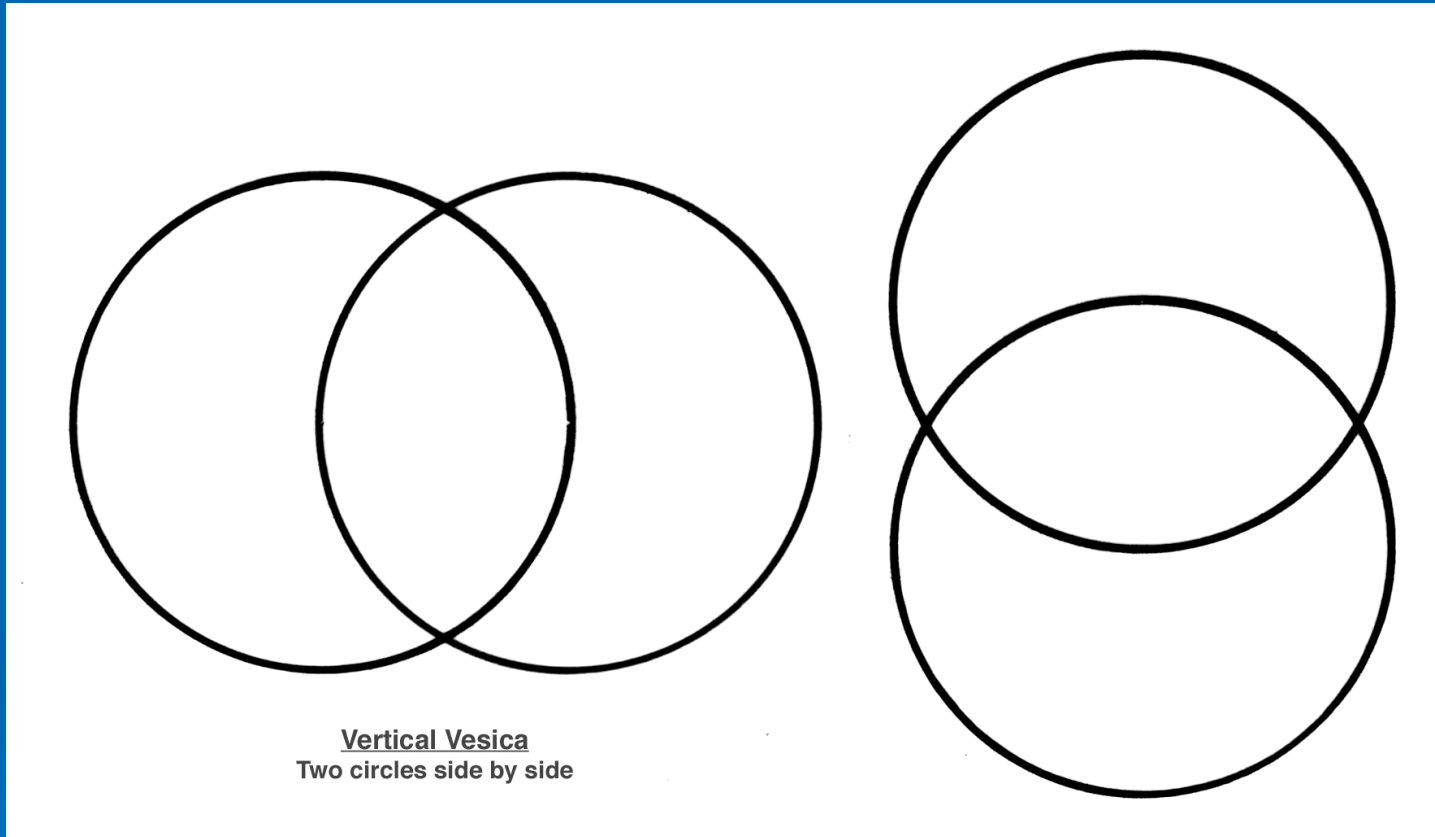
The Vesica Cosmo-Genesis is completely self-referencing. It is the extension of Self (primordial Sphere) into its Partner Self by one radius unit.

This is the only rule and template of creation and it applies to all levels.

On a human level, the Vesica is an invitation to extend ourselves to other Partners of Self, to reach out by one arm’s length, to touch each other’s hearts. It is an evolutionary call to create, out of this womb of potential birth, a new baby universe. It is the ultimate “gesture of the heart”. It is Love manifested.

Vesicas reaching around form a blossoming grid (the “*Flower of Life*”) that is self-sustained by using the sacred geometric roots of $\sqrt{2}$, $\sqrt{3}$ and $\sqrt{5}$. All created structures based on this cosmic grid partake of the Cosmic Matrix of creation and have maximum Oneness (integrity and identity): they contain a “spark” of the original Source, they align with the Axis of the World, they are co-divine.

SG108.1.5.1 Vesica Orientation (1)



Vertical Vesica
Two circles side by side

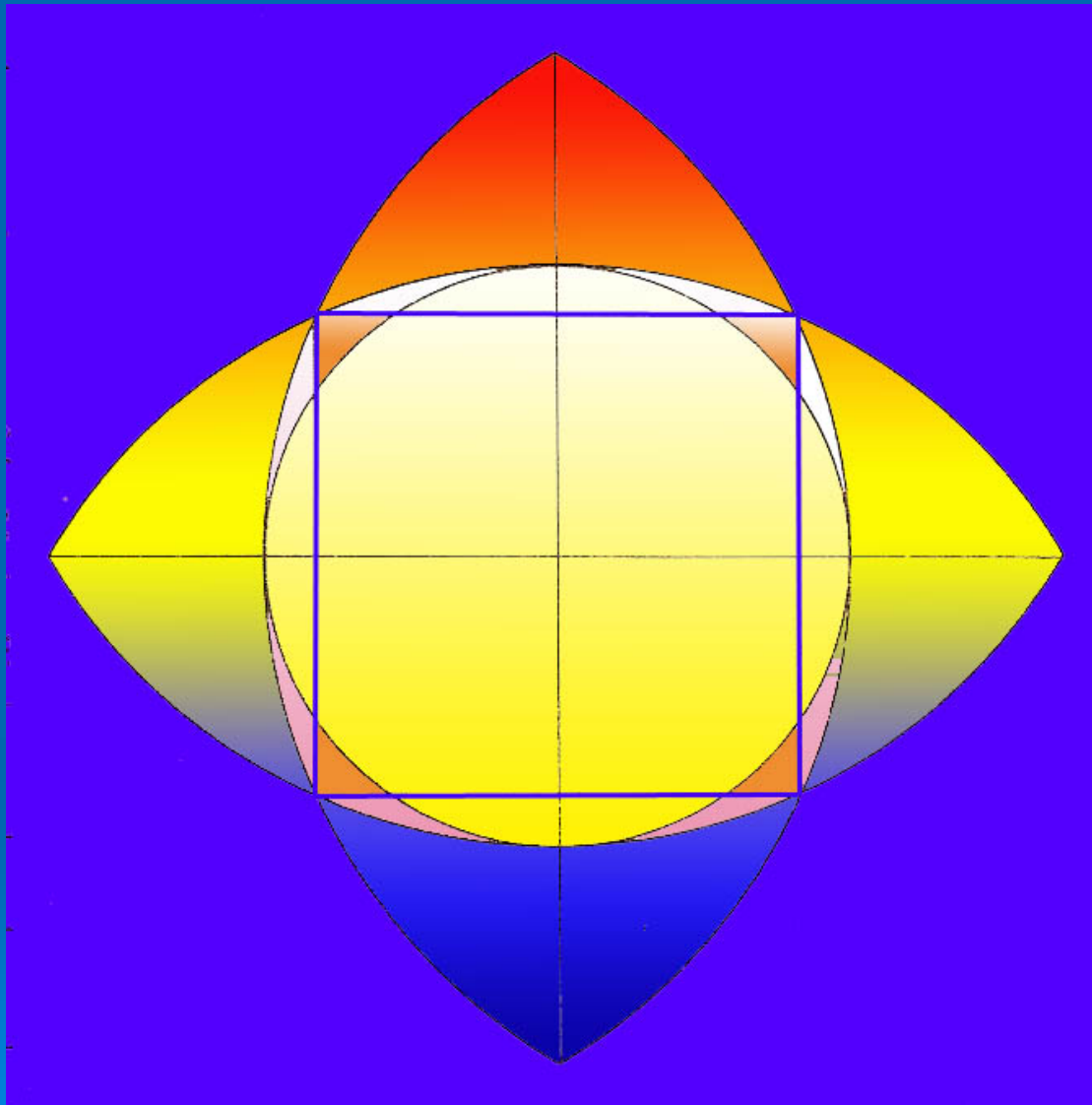
↑ Classic Vertical Vesica
“Almond” shape

↑ Horizontal Vesica
“Eye” shape

SG108.1.5.2

Vesica

Orientation (2) Squared Circle



The two orientations combined (vertical + horizontal) give an approximation of “*squaring the circle*”: the circle inscribed within the Cross Vesica has the same length as the perimeter of the square touching the 4 intersections of the Vesicas.

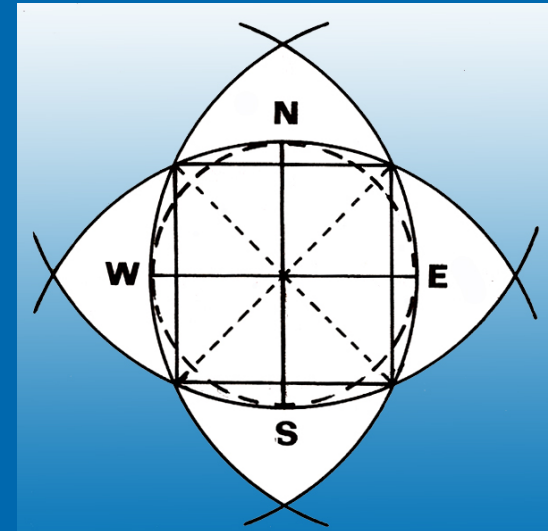
SG108.1.5.3 Vesica Orientation (3)

The Cross Vesica

The “*Cross Vesica*” also gives the traditional geomancy diagram for an Indian Temple. This ritual of orientation generates the three foundation maps: the *circle* (solar cycle & heaven), the *square* (Earth & grounded spirit) and the *cross* (the 4 cardinal directions & the human journey).

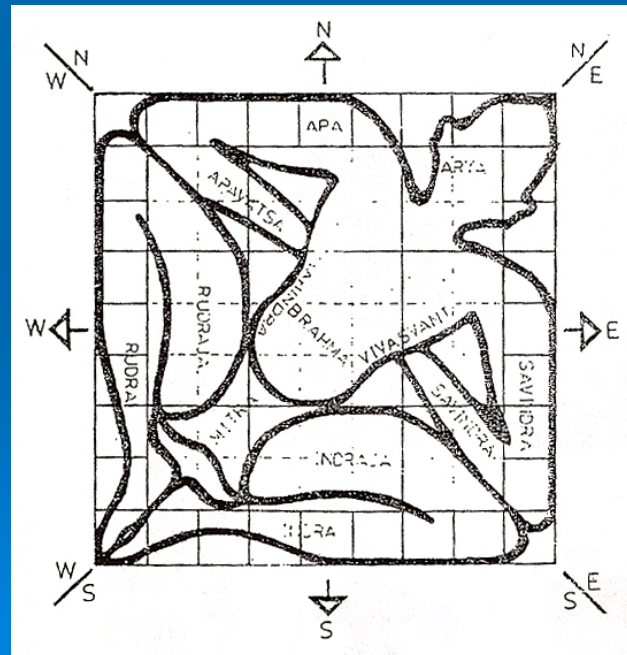
“The universe is present in the Temple
In the form of proportions”. Vedic Sutra.

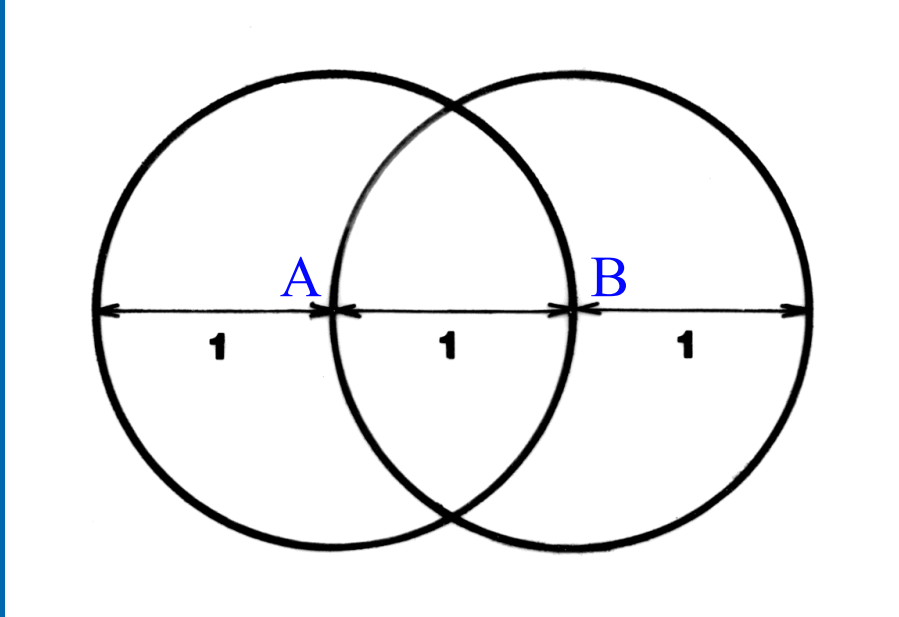
Orientation diagram
of a Hindu Temple →



In the Hindu tradition, the square obtained from the ritual of orientation is called the *Vastu Purusha Mandala*.

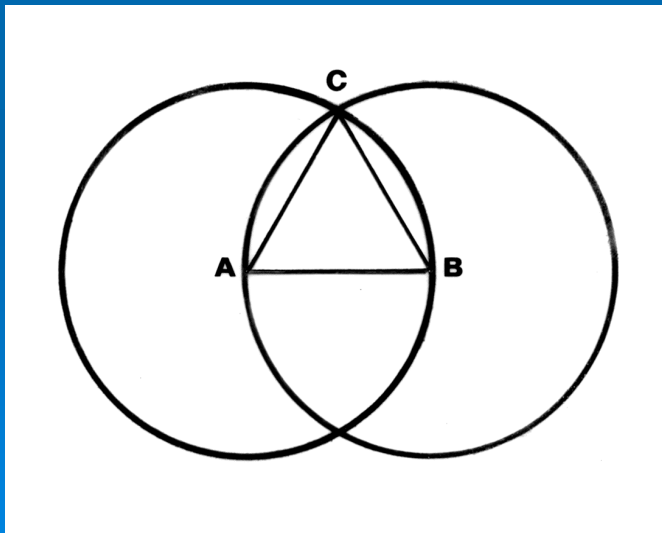
→ Vastu Purusha representing the manifested form of the Cosmic Being / Cosmic Man (*Purusha*) upon the Earth.





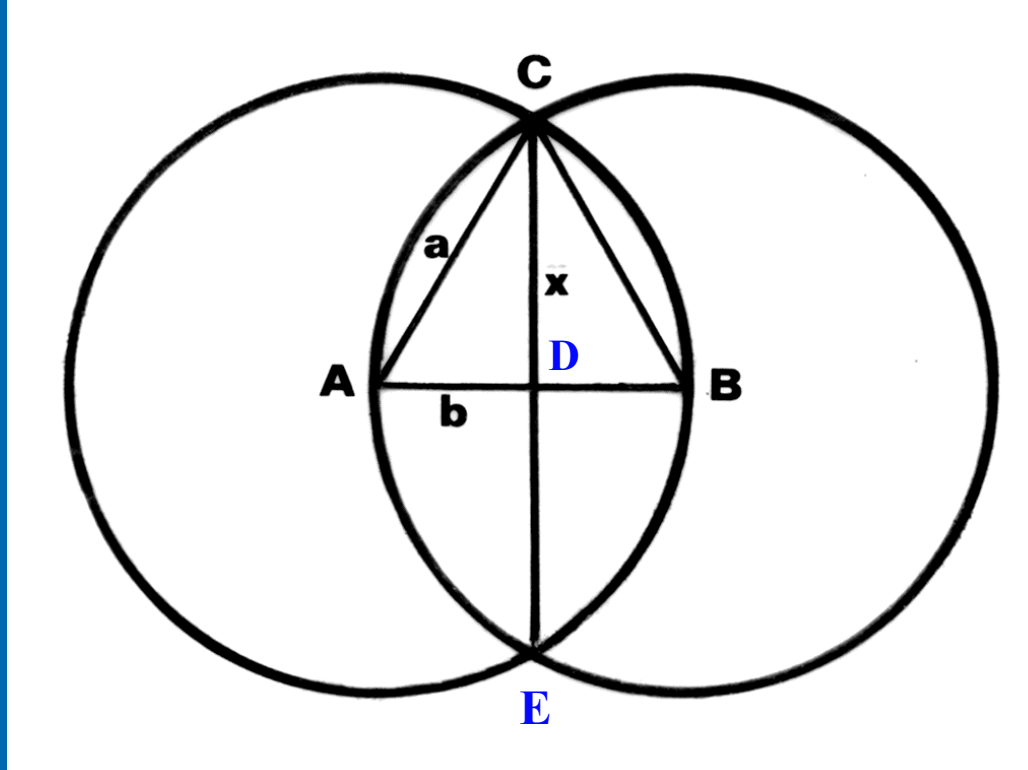
SG108.1.6 The Width of the Vesica = 1

The width of the Vesica
 = the base line AB
 = 1
 = radius of the parent circles



To construct the Equilateral Triangle within the Vesica:

From base line AB, with center A and radius AB, trace circle A.
 From center B and same radius, trace circle B.
 C is the apex of the Vesica.
 Connect ABC to form the equilateral triangle with 3 equal sides = 1



SG108.1.7 The Length of the Vesica = $\sqrt{3}$

Ancient Tradition used the ratio 265:153 as an approximation to the square root of 3, with the property that no better approximation can be obtained with smaller whole numbers:

$$265 / 153 = 1.732026$$

We are looking for the length CE or Vertical (Long) axis of the Vesica.

Given $AB = 1$, $AD = b = 0.5$ and $AC = a = 1$, we have [per $b^2 = a^2 + x^2$]

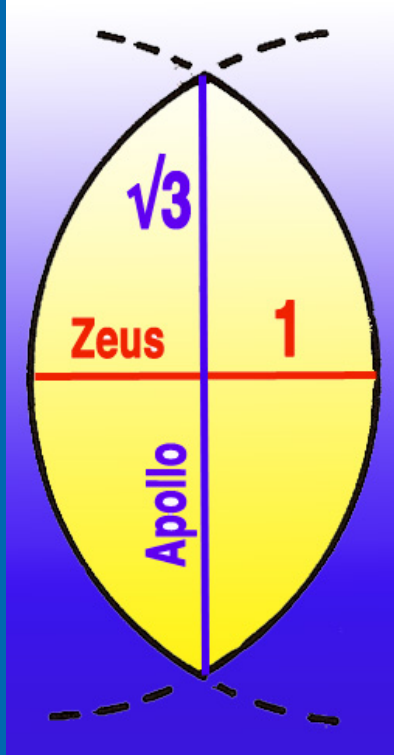
$$1 - .25 = x^2 \quad x = \sqrt{1 - .25} = .866$$

$$2x = \text{length (or "long axis") of Vesica} = 2 (.866) = 1.73205 = \sqrt{3}$$

153 = 1! + 2! + 3! + 4! + 5!
 153 = 1³ + 5³ + 3³
 153 = 17th triangle number.
 153 fishes in the Bible.

The quality of $\sqrt{3}$ is FORMATION

SG108.1.8 The Vesica in Gematria



In ancient languages (Greek, Hebrew, Arabic, Sanskrit...), the alphabet was sacred because it was a list of archetypal energies, a Table of Cosmic Powers. Letters were “*hieroglyphs*” (Greek *hieros* = sacred + *glyphein* = sign) serving also as numerals and activating cosmic law. This was the language of ancient super-physics. This art-science of harmonic resonance between numbers/proportions and letters/sounds is a synthetic body of knowledge called Gematria.

One of the Gematria techniques is called “*Digit Reduction*” and makes it possible to find the “number signature” (resonant frequency) of any word, name or sentence simply by adding the values of the letters composing it. (♦SG202 & SG303)

Ἀπόλλων = 1061

Ζεύς = 612

Ἑρμῆς = 353

$1061 / 612 = 1.733$

$612 / 353 = 1.733$

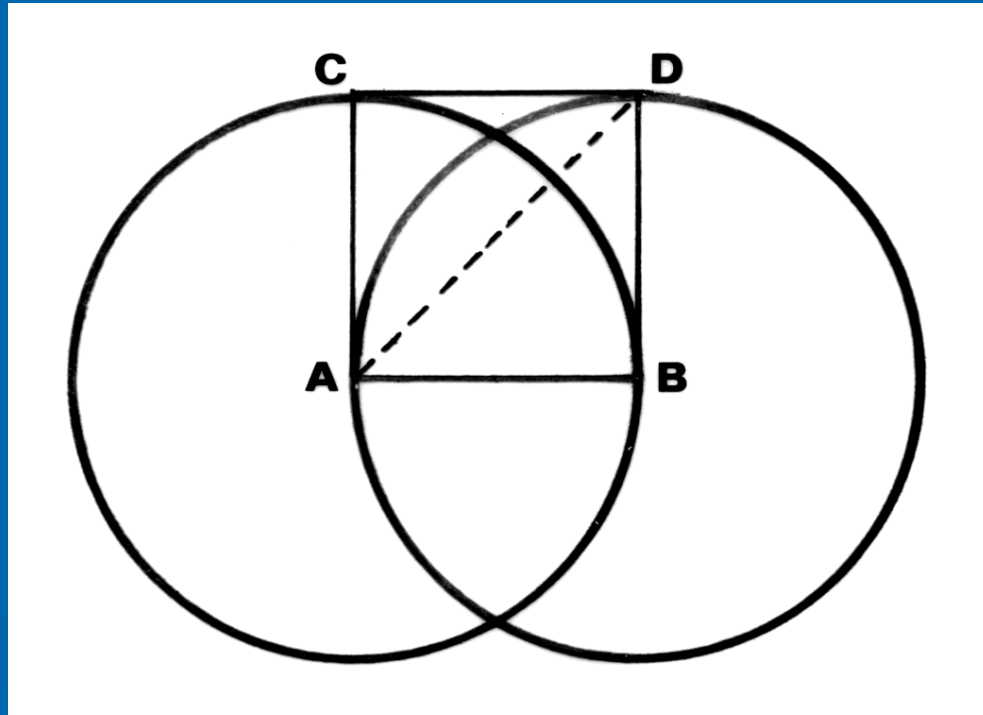
$= \sqrt{3} = 1.732$

= long axis of Vesica

Α	Β	Γ	Δ	Ε	Ζ	Η	Θ	
Alpha	Beta	Gamma	Delta	Epsilon	Digamma	Zeta	Eta	Theta
1	2	3	4	5	6	7	8	9
Ι	Κ	Λ	Μ	Ν	Ξ	Ο	Π	Ρ
Iota	Kappa	Lambda	Mu	Nu	Xi	Omicron	Pi	Koppa
10	20	30	40	50	60	70	80	90
Ρ	Σ	Τ	Υ	Φ	Χ	Ψ	Ω	Ϻ
Rho	Sigma	Tau	Upsilon	Phi	Chi	Psi	Omega	Sampi
100	200	300	400	500	600	700	800	900

← Greek
Gematria

SG108.1.9.1 Diagonals of the Vesica (1) Square = $\sqrt{2}$



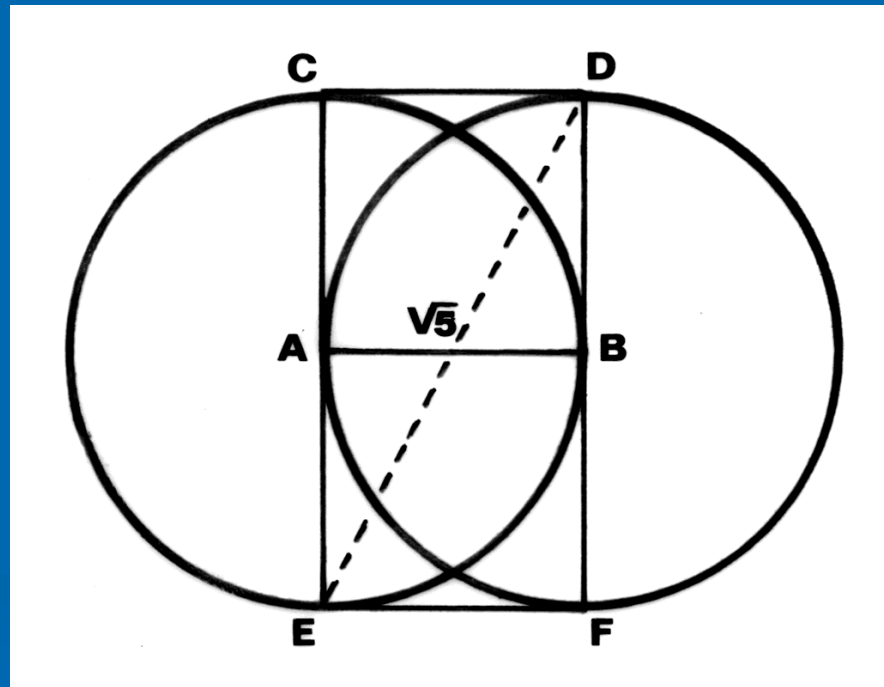
From base line $AB = 1$ and the Vesica, construct a square of sides = 1.
We are looking for the length of the diagonal AD of square ABCD.

$$AD = \sqrt{1^2 + 1^2} = \sqrt{2}$$

The quality of $\sqrt{2}$ is GENERATION

SG108.1.9.2 Diagonals of the Vesica (2)

Double Square = $\sqrt{5}$



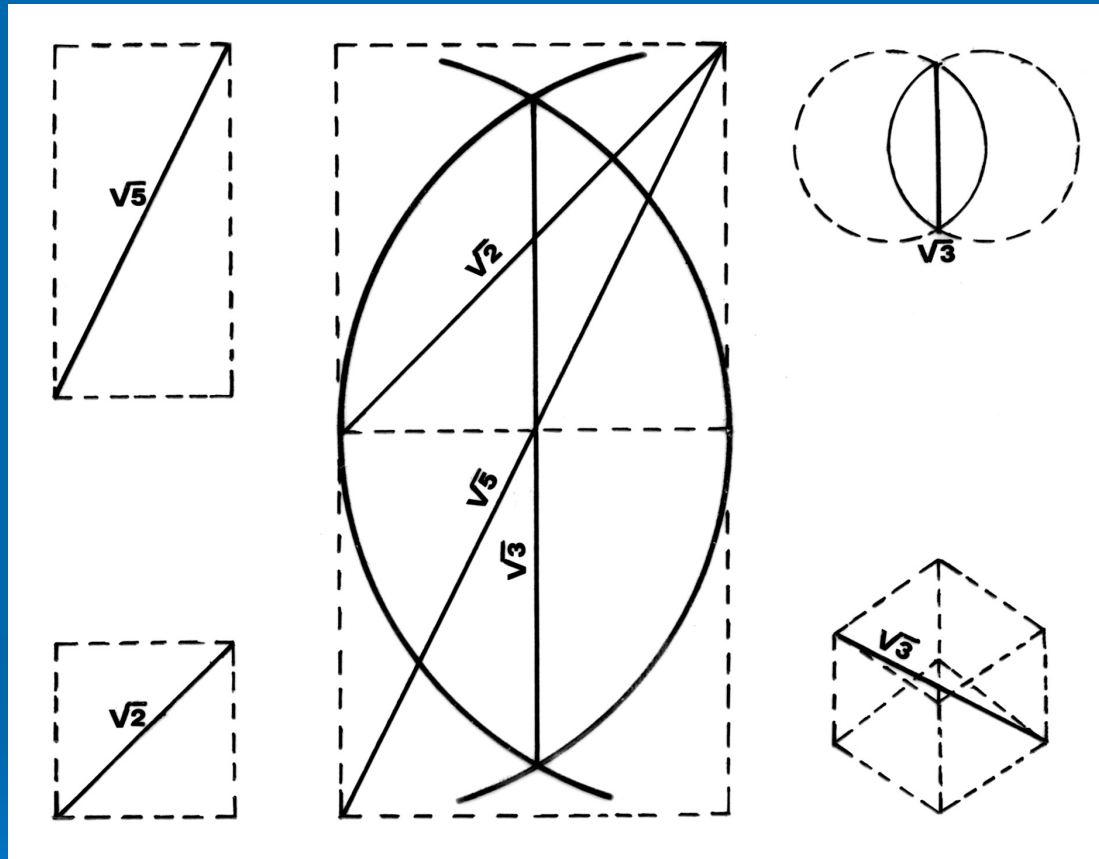
Extend square ABCD into double square CDEF.

We are looking for the length of the diagonal ED

$$ED = \sqrt{1^2 + 2^2} = \sqrt{5}$$

The quality of $\sqrt{5}$ is RE-GENERATION

SG108.1.10.1 The 3 Roots of The Vesica (1)



“The root is a symbol for the law of sacrifice in nature, for, like a mother, its efforts are not for its own benefit but to uplift the plant in its movement toward light.”

Robert Lawlor.
Sacred Geometry. 1982.

*“To seek the root is to return to the Source.
And to return to the Source is to pursue one’s destiny.”* Lao Tzu

SG108.1.10.2 The 3 Roots of The Vesica (2) Their Meaning

The unique property of the Vesica is that it contains all 3 “SACRED ROOTS”: $\sqrt{2}$, $\sqrt{3}$, $\sqrt{5}$.

These mathematical roots are “irrational” - beyond finite material confinement. They are “sacred” because they belong to the archetypal world.

Mathematical roots, like vegetal roots, contain a power of Causation. The root of a plant is embedded in the soil - the earth matrix. The mathematical root is embedded in a geometric matrix:

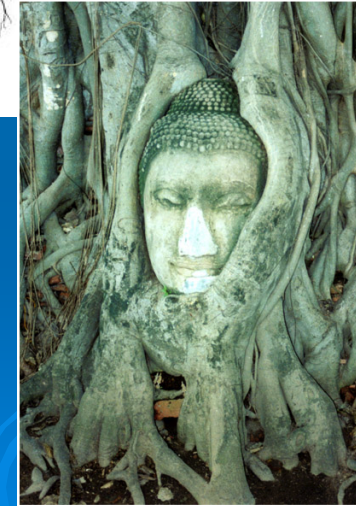
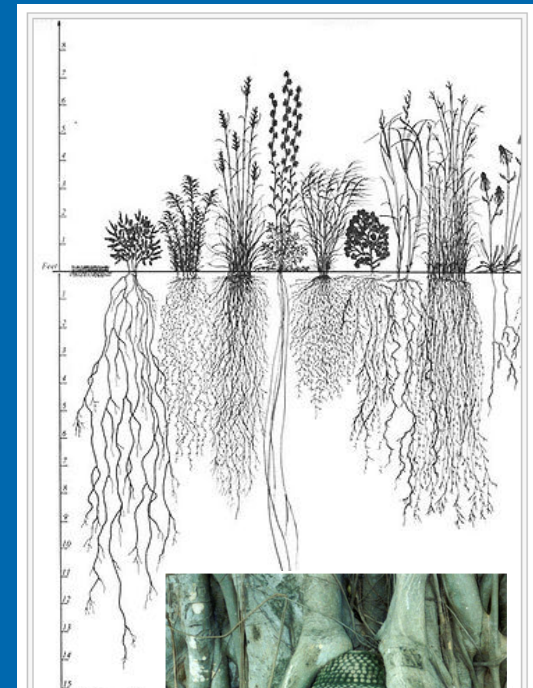
$\sqrt{2}$ in the Square (as the diagonal)

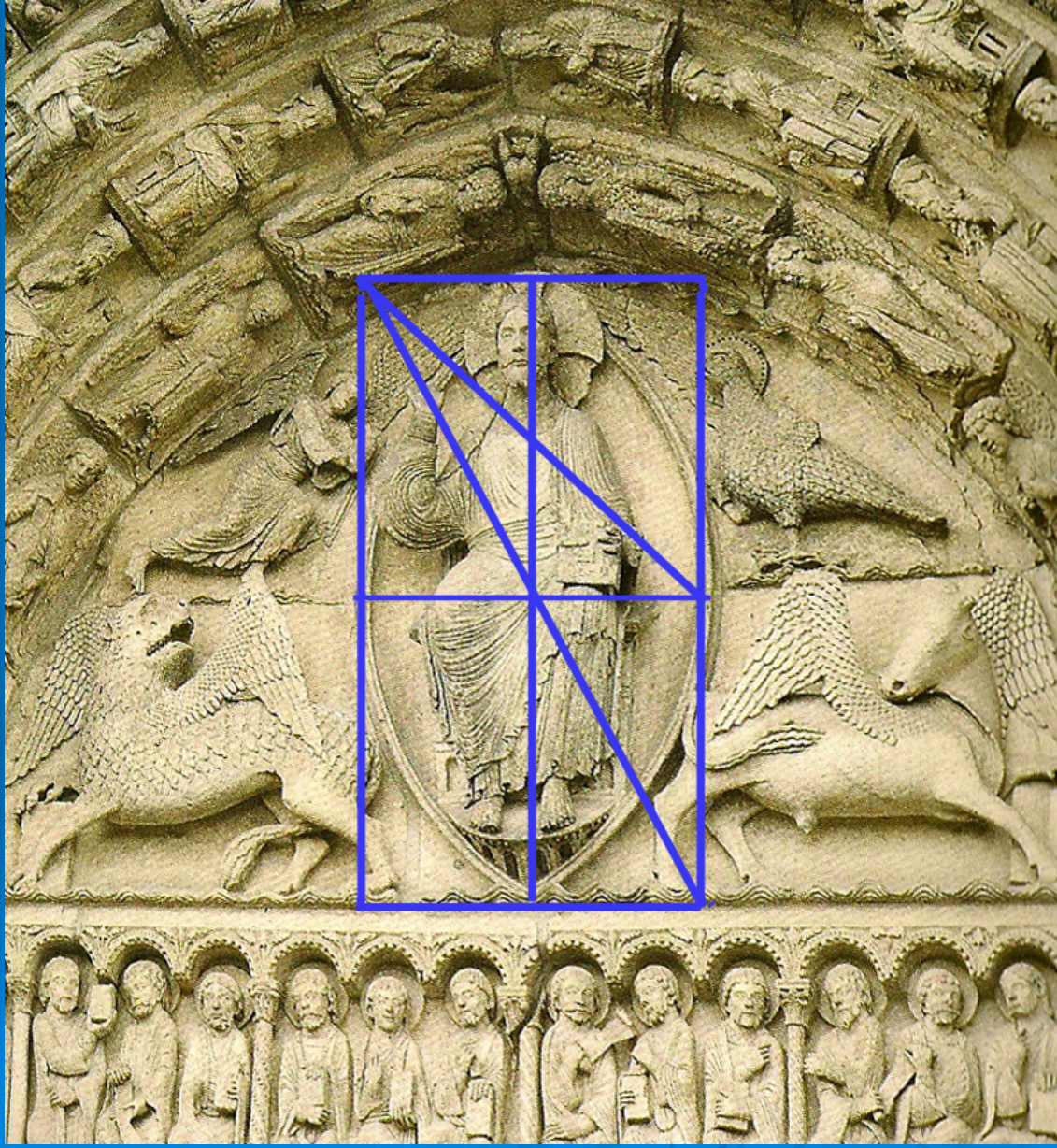
$\sqrt{3}$ in the Vesica (as the length or long axis)

$\sqrt{5}$ in the Rectangle (as diagonal of the double square)

All roots procure *nourishment from a larger context*, while they prepare the birth of a new offshoot.

As a metaphor of manifestation,
the Vesica actualizes 3 Causations:
GENERATION - symbolized by $\sqrt{2}$ (cellular division)
FORMATION - symbolized by $\sqrt{3}$ (3D space)
RE-GENERATION - symbolized by $\sqrt{5}$
and the related Golden Ratio Φ (Phi)

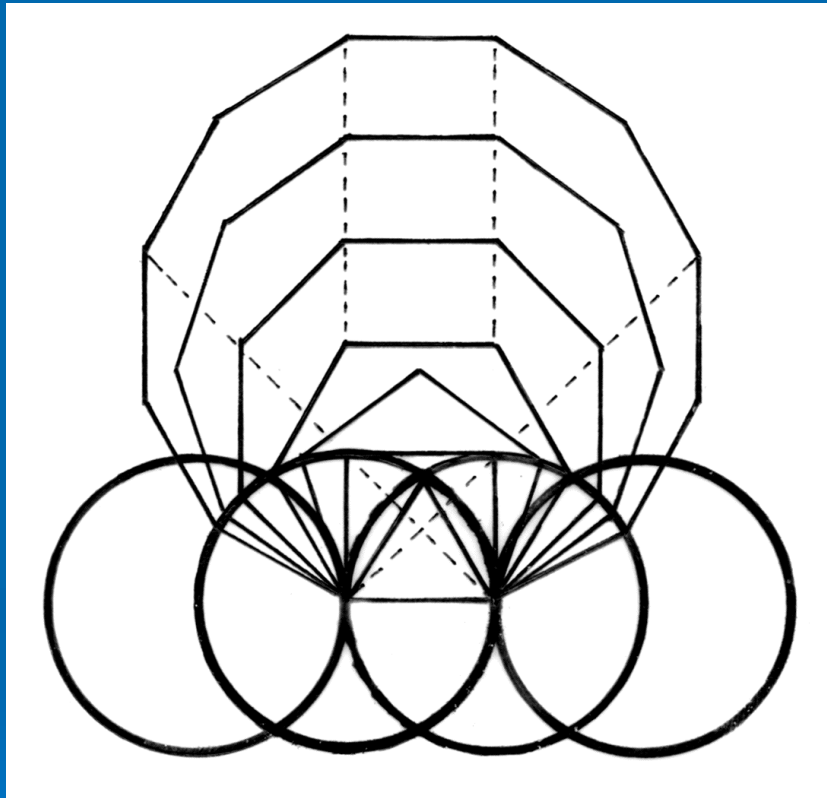




SG108.1.10.3 The 3 Roots of The Vesica (3)

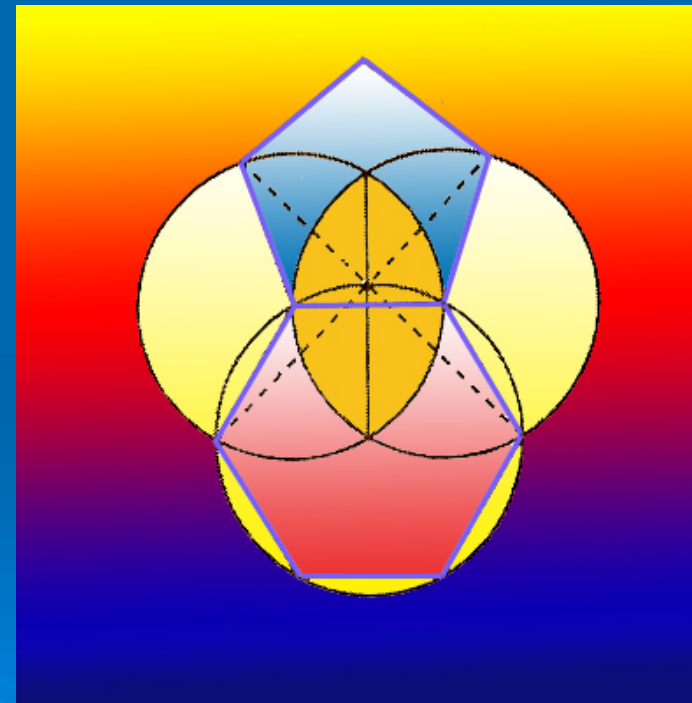
Chartres

SG108.1.11.1 The Vesica as Polygon Generatrix (1)

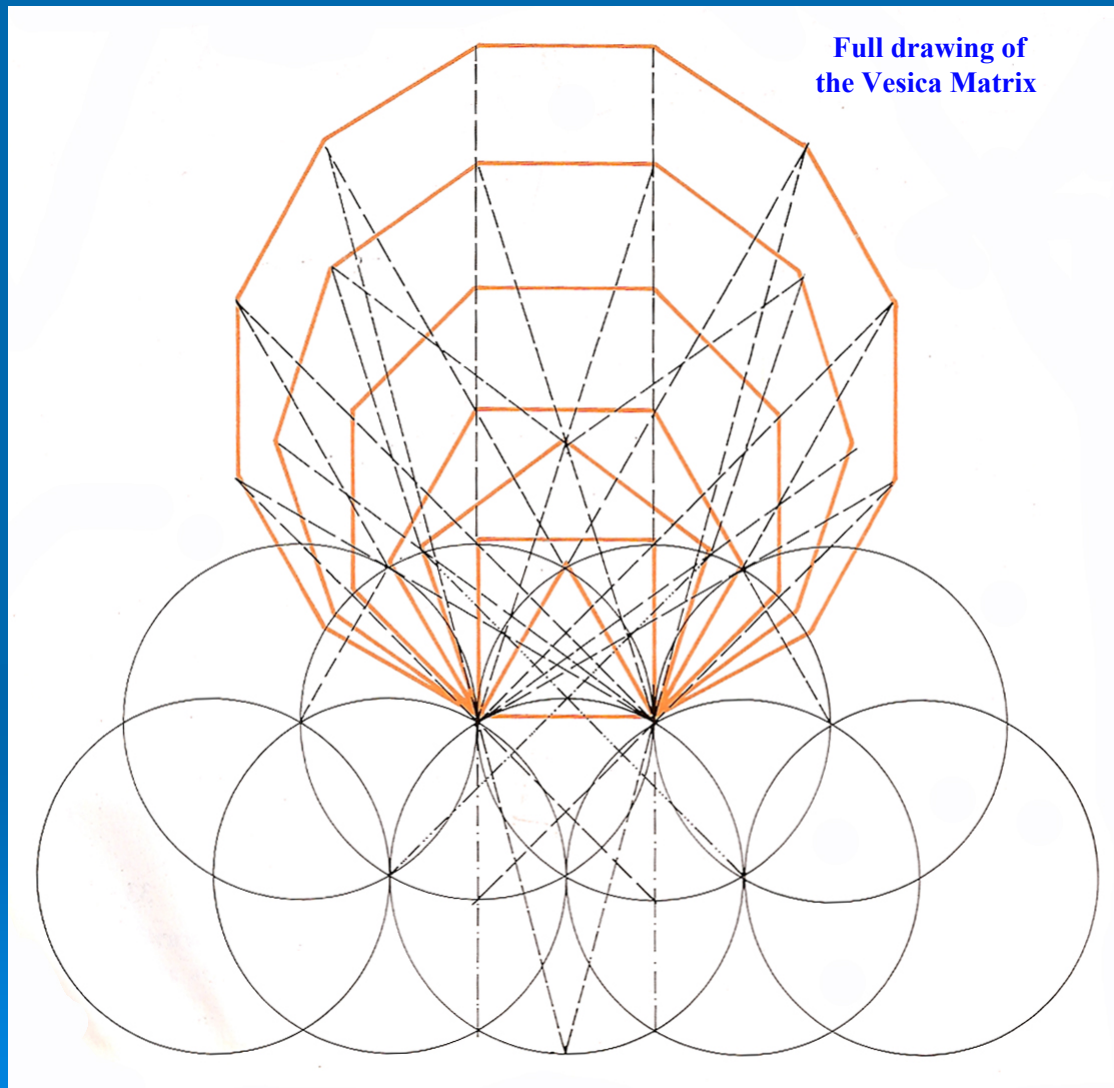


↑ All basic regular polygons are born from the Vesica womb.

The FORMATIVE quality of $\sqrt{3}$ (long axis of the Vesica) gives rise to all the basic polygonal shapes in the universe.



SG108.1.11.2 The Vesica as Polygon Generatrix (2)



Full drawing of
the Vesica Matrix

“This drawing of growth even suggests the Tree. The Vesica can represent the Seed. From its germination springs forth the circles below (the roots) and the polygons (the germ giving rise to the branches). The $\sqrt{3}$ contained within the Vesica is the formative power giving rise to the polygonal world”.

(Diagram /quote from: R. Lawlor.
Sacred Geometry. 1982.)

The base of the equilateral triangle defines successively the sides of:

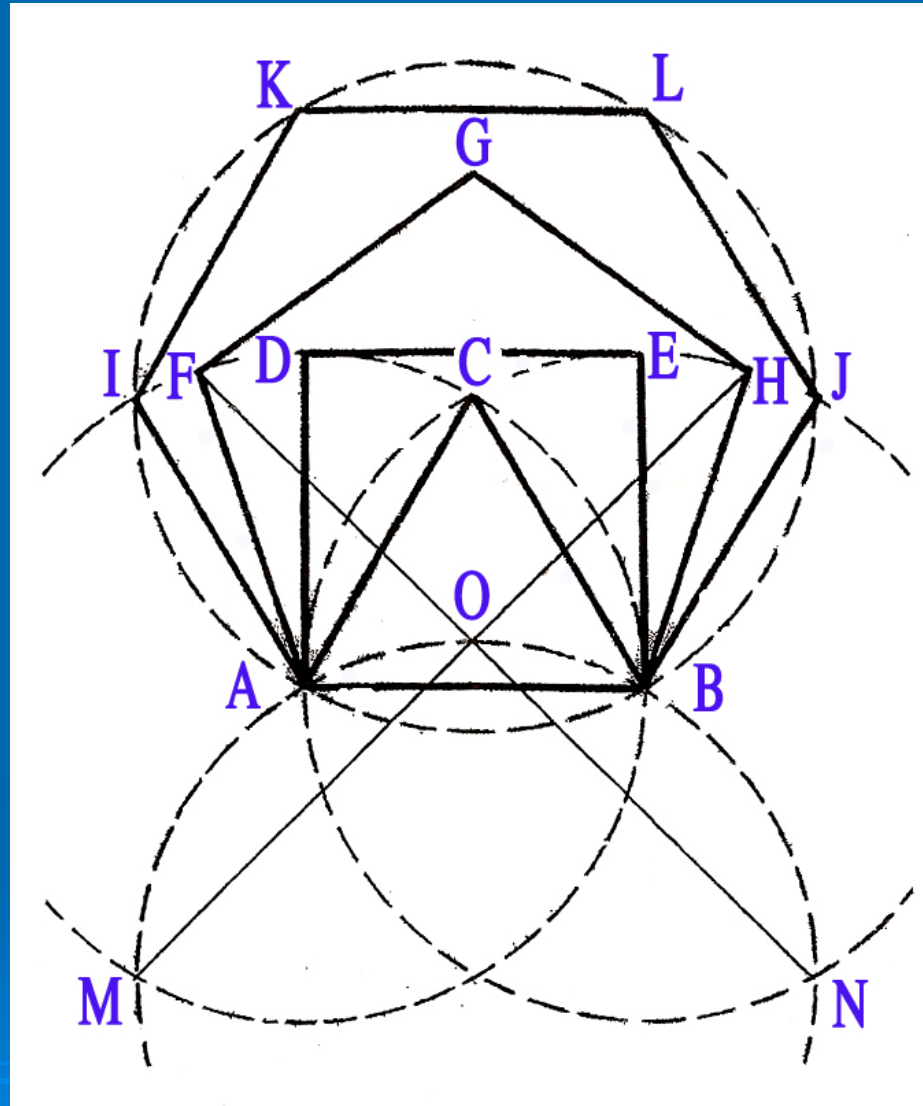
- Square (4)
- Pentagon (5)
- Hexagon (6)
- Octagon (8)
- Decagon (10)
- Dodecagon (12)

SG108.1.11.3 The Vesica as Polygon Generatrix (3)

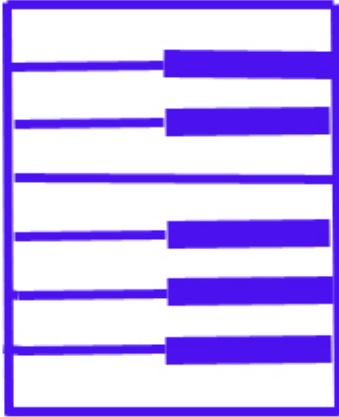
1, 2... 0 ... 3, 4, 5, 6...
Birthing the Universe
From the Vesica

Construction:

1. Trace the 3 intersecting circles of centers A, B and C and common radius AB.
2. The Vesica is ready for birth.
3. The sides of the Triangle, Square and Hexagon are multiples of the radius AB:
 - Triangle: $AB = AC = CB$
 - Square: $AB = AD = DE = EB$
 - Hexagon: $AB = AI = IK = KL = LJ = JB$
4. The points F and H (pentagon's sides AF and BH) are marked by the lines NO and Mo extended to the circumference of circles A & B.



SG108.1.11.4 The Vesica as Polygon Generatrix (4)



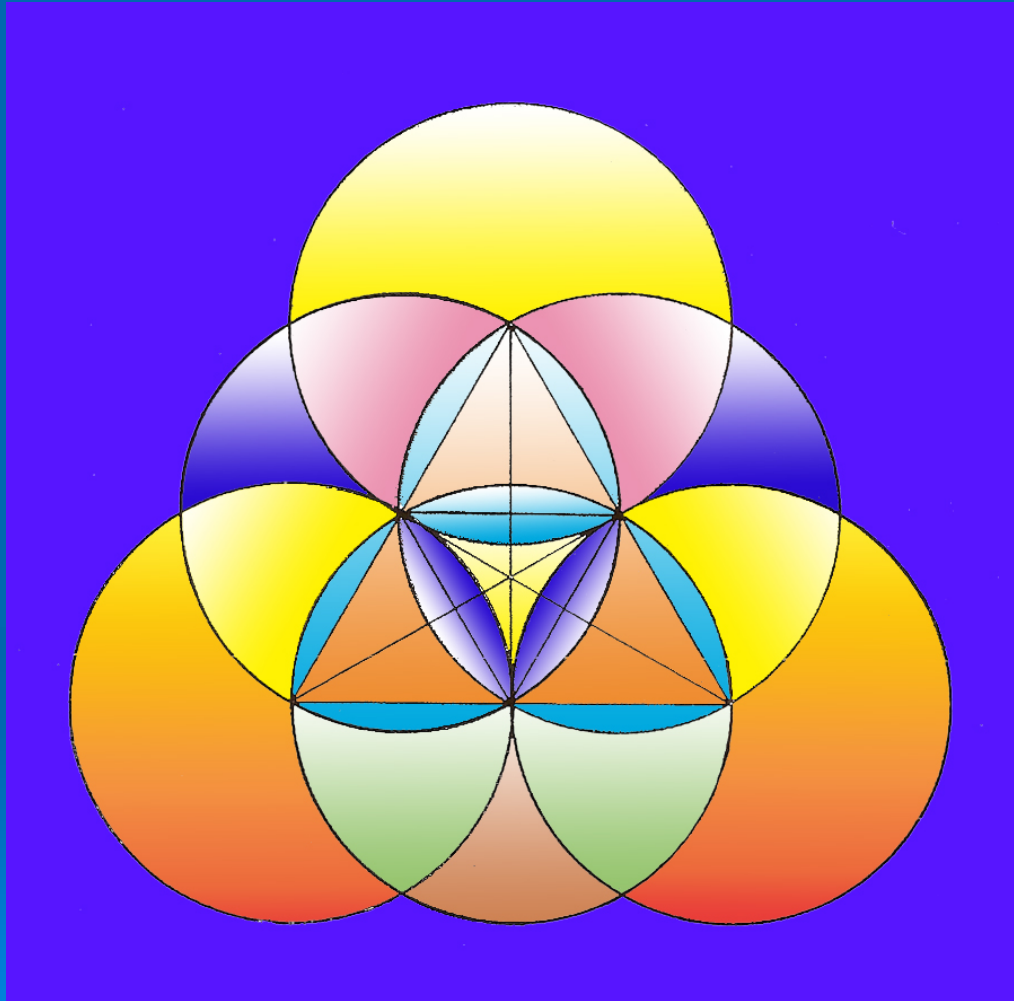
1. One - Source. Primordial Monad sphere/circle of center A.
2. Two - Division/Extension of Monad into twin circles A & B.
3. Three - Triangle ACB.
4. Four - Square ADEB.
5. Five - Pentagon AFGHB.
6. Six - Hexagon AIKLJB.
7. Seven - Heptagon. Completion before New Beginning.

The Vesica Fountain →
Chalice gardens,
Glastonbury,

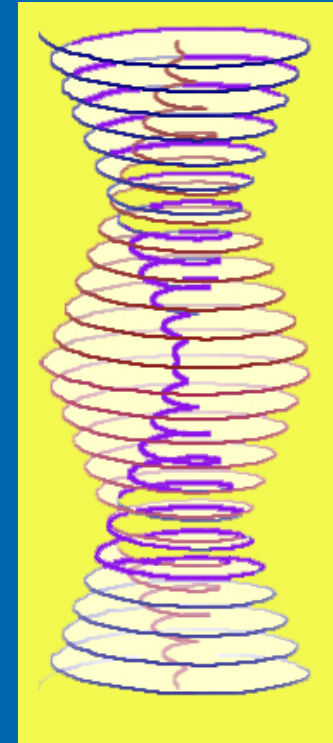
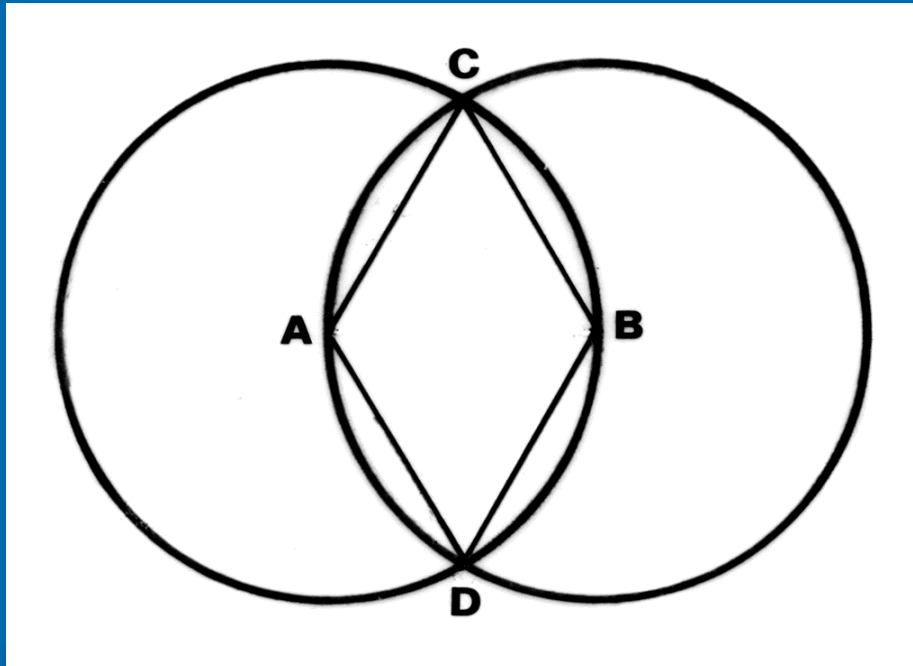
www.aniwilliams.com



SG108.2 Chapter 2. Geometries of the Vesica.



SG108.2.1 The Rhombus in the Vesica (1)



www.joannawhitney.com

A *rhombus* (from Greek “*rhombein*” = to turn, to twirl) is an equilateral parallelogram with oblique angles. It is sometimes called a lozenge (from French “*losange*”) -although a lozenge has 45° angles-, and colloquially a ‘diamond’. In the Vesica, the rhombus ACBD is a figure made of two base-to-base equilateral triangles (ACB and ADB) with angles of 60° and 120° . In 3D, the rhombus can be visualized as two cones base-to-base.

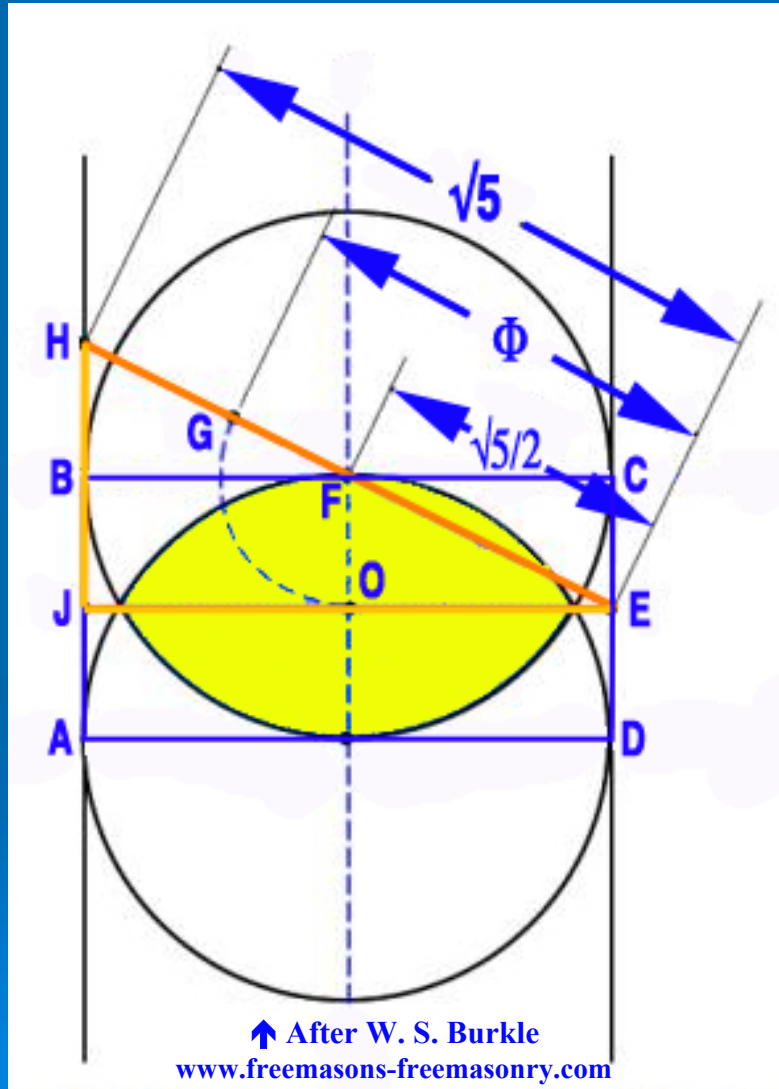
The rhombus has the symbolic meaning of Union between Above and Below.

SG108.2.1 The Rhombus in the Vesica (2) Alchemy



“Maria Prophetissa” pointing to the alchemical *conjunctio* or union between Heaven and Earth. This Union takes the form of a rhomboid Vesica nurturing the penta-flower seedling that will grow into a Cosmic Tree. Maier. *Symbola Aurea Mensae*. Frontispiece.

SG108.2.2.1 The Vesica & PHI (1)



The Classic Vesica, resulting from the intersection of 2 circles, is not *per se* a Golden Geometry figure, since its two diagonals are 1 and $\sqrt{3}$. However, the Vesica is embedded in a Golden matrix because the diagonal of the double square (long rectangle) extending its width is $\sqrt{5}$.

We will give examples of the PHI extensions of the Vesica and then we will present the Vesica's Big Sister: the Golden Vesica.

Construction
(with Vesica's width = 1)

ABCD = Double Square rectangle,
with sides = 1 and 2.

Triangle JHE has hypotenuse = $\sqrt{(1 + 4)} = \sqrt{5}$

Tracing an arc, with radius FO onto
EH to mark the point G.

$$\begin{aligned}
 GE &= FE + FG \\
 &= \sqrt{5}/2 + .5 = 1.618 = \text{PHI.}
 \end{aligned}$$

SG108.2.2.2 The Vesica & PHI (2)

Let's recapitulate
from the preceding drawing:

$$\begin{aligned} AB &= 1 \\ BC &= 2 \\ EH &= \sqrt{5} \\ EG &= \text{PHI } (\Phi) \end{aligned}$$

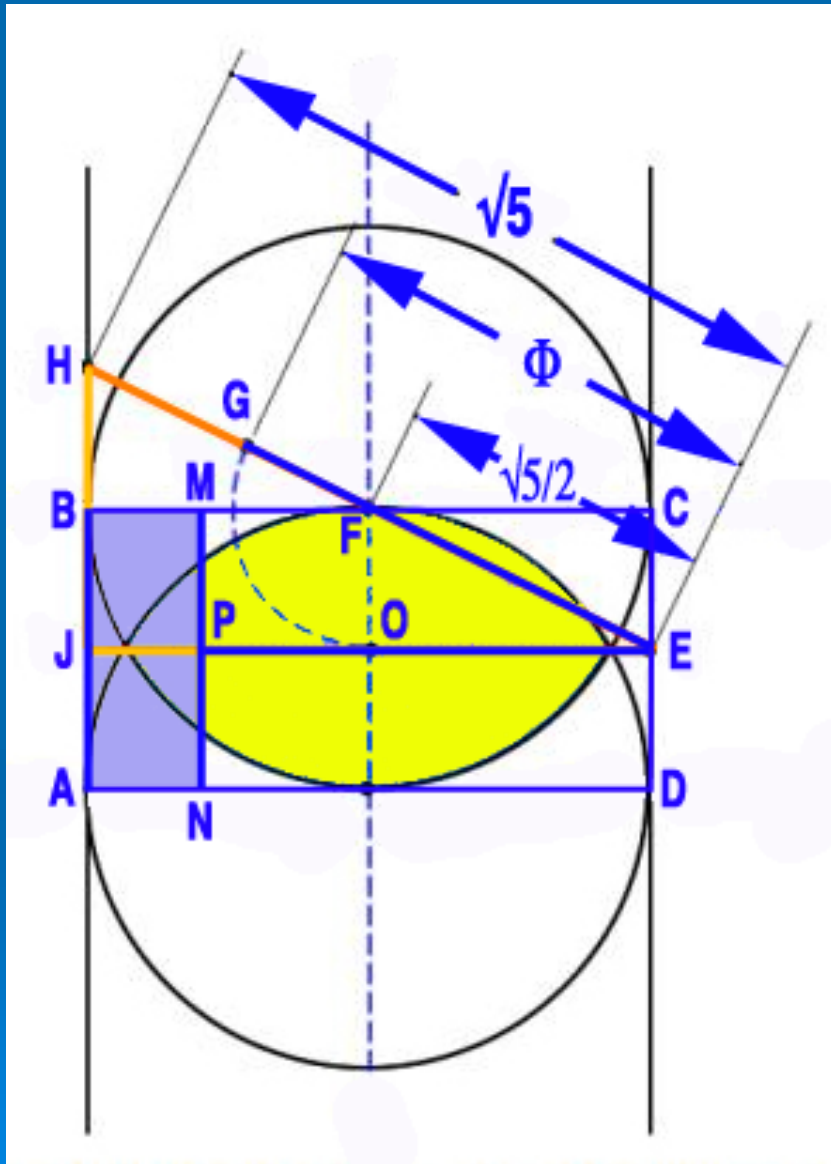
Further construction:

From E, with radius $EG = \Phi$, trace an arc to mark the point P such as $EP = EG = \Phi = 1.618$

Then $JP = 2 - 1.618 = .382$

Consider the rectangle ABMN (in blue shade) with sides = 1 and .382. We have $1 / .382 = 2.618 = \Phi^2$

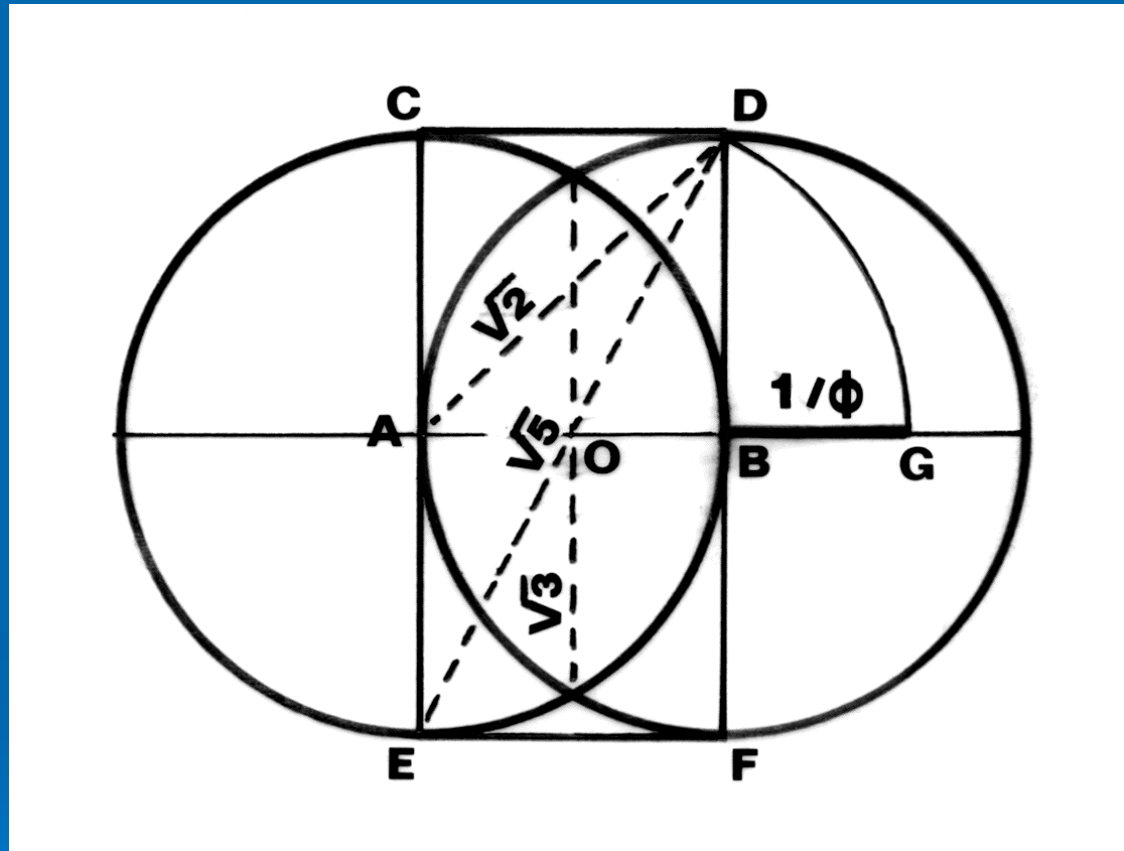
Consider the rectangle CDMN with sides = 1.618 and 1. We have here a perfect Golden Rectangle.



SG108.2.2.3 The Vesica & PHI (3)

Here is the second example of the close connection between the Vesica and PHI.

It is based on the same property of the $\sqrt{5}$ "root" of the Vesica but with a different geometry that prepares us for the introduction of the Golden Vesica.



$$\text{With radius OD trace } OG = OD = \sqrt{5}/2 \quad (AB = 1)$$

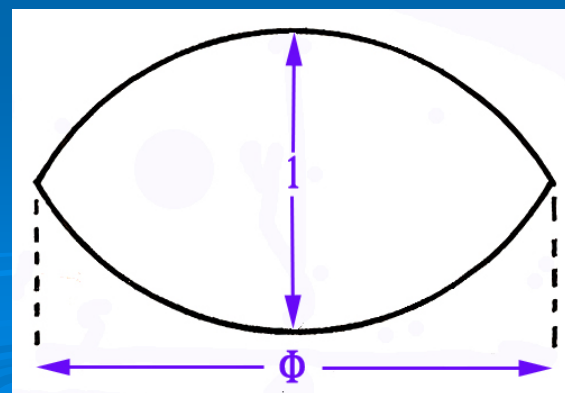
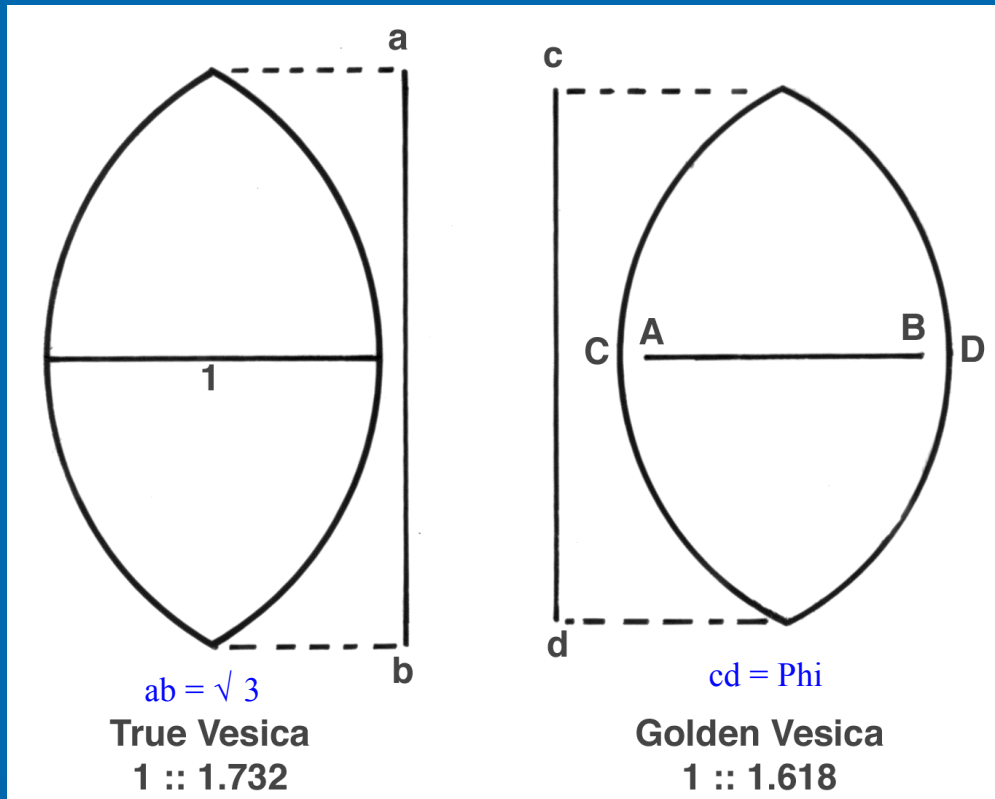
$$BG = (\sqrt{5}/2) - 0.5 = .618 = 1/\phi$$

SG108.2.3.1 The Golden Vesica (1)

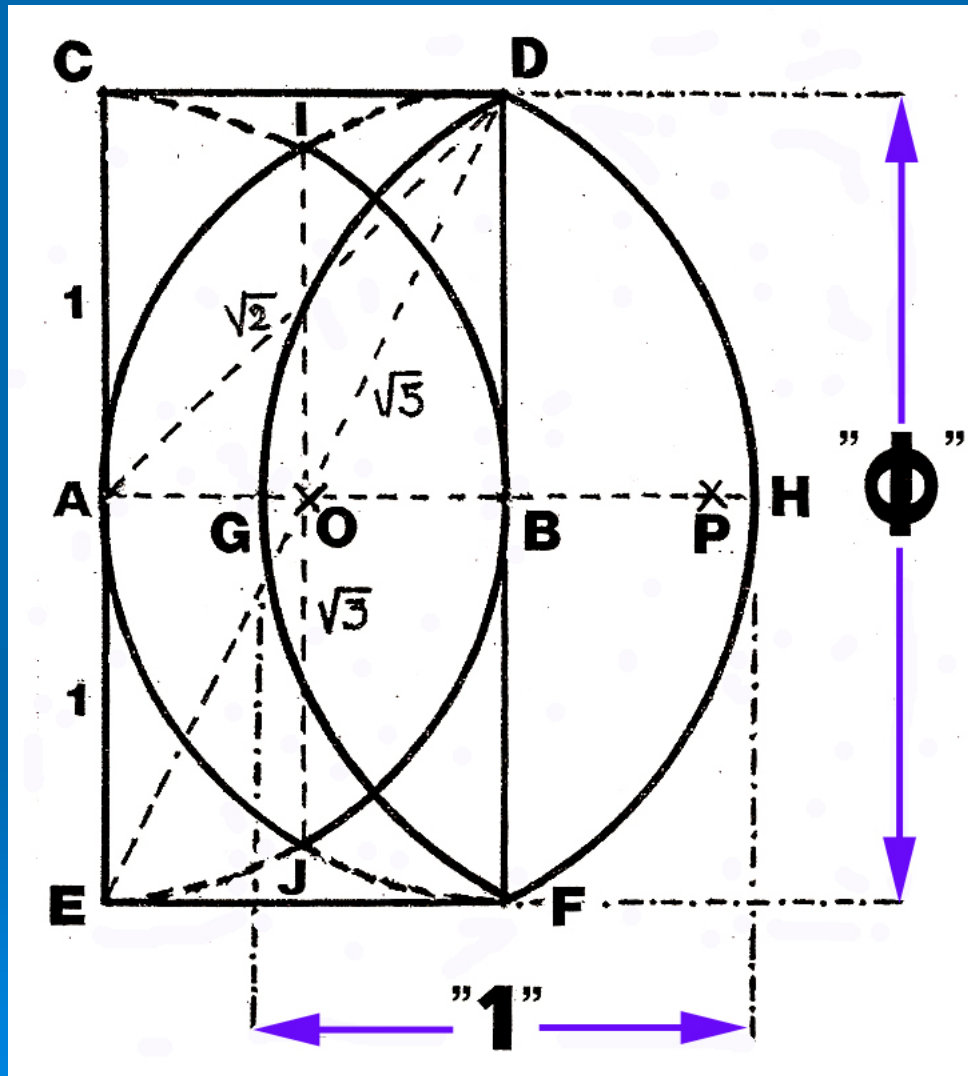
A regular Vesica has a long axis (ab) of $\sqrt{3}$ for a short axis of 1.

A “Golden Vesica” has a long axis (cd) of Phi (1.618) for a short axis (CD) of 1.

Thus the Golden Vesica is slightly more “egg like” and its arcs have to be traced from points A and B.



SG108.2.3.2. The Golden Vesica (2)



Classical Vesica (AIBJ) construction:

(Short axis $AB = 1 = \text{radius}$
Long axis $IJ = \sqrt{3}$)

Points of compass at A & B, with radius $AB = BA$, coinciding with the extremities of the short axis.

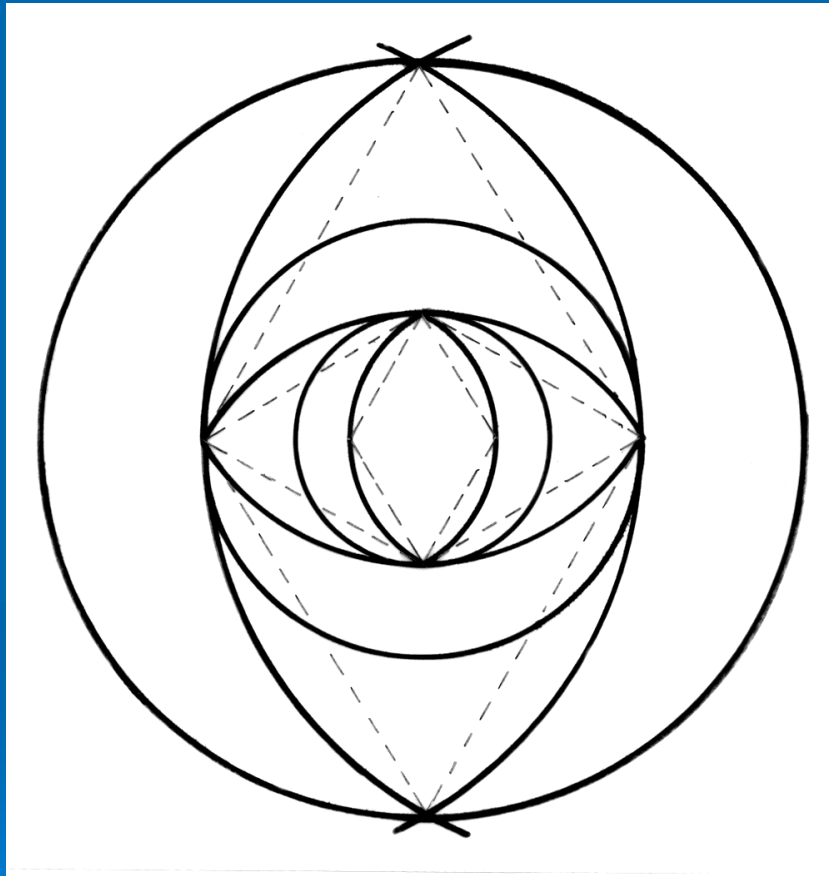
*[Drawing not to scale:
two different scales juxtaposed]*

Golden Vesica (GDHF) construction:

(The short axis GH and the long axis DF are in PHI ratio: $1 / \Phi$)

Points of compass at O and P, with radius $OH = PG$. Not on the extremities of the short axis, but slightly inside of it.

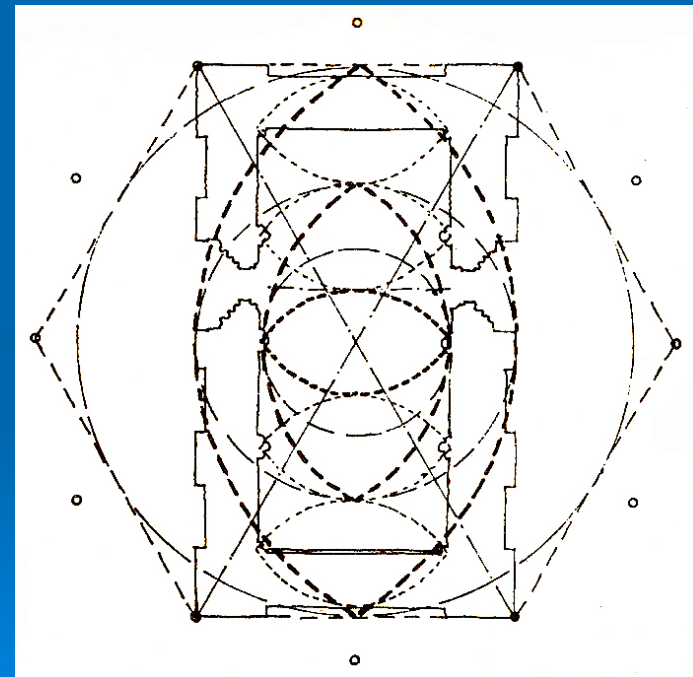
SG108.2.4.1 Vesica Progressions (1)



↑ Self-generating Vesicas

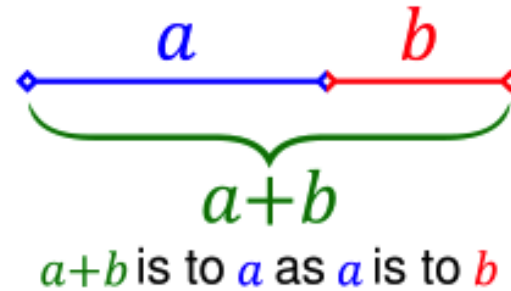
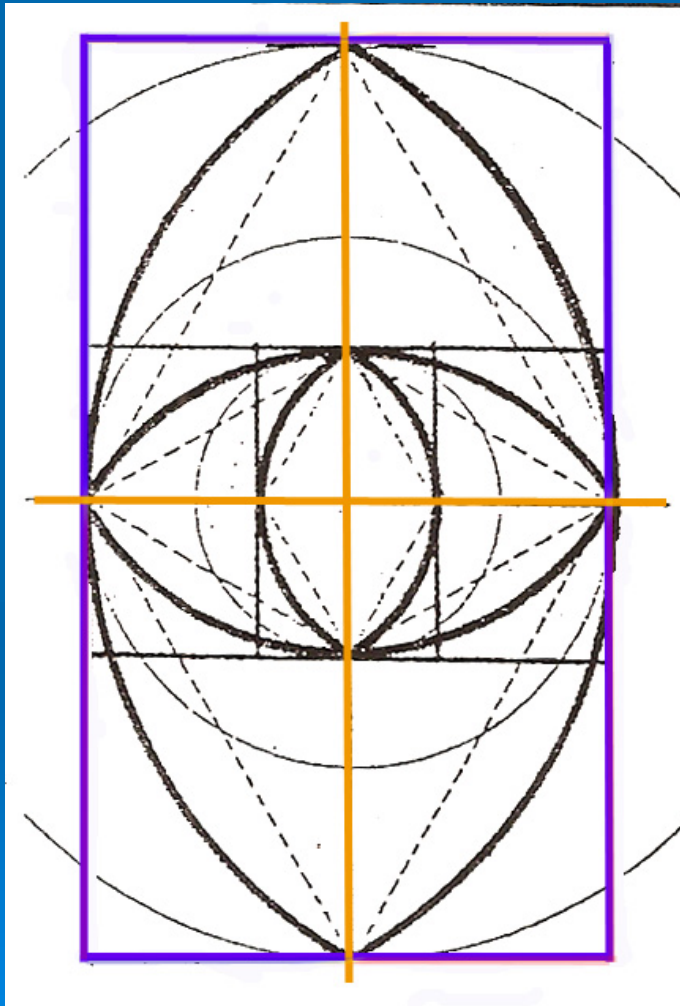
Vesicas can nest into each other by orthogonal rotation: each Vesica is nesting within the width of the next/preceding one.

$$\begin{aligned} & \text{axis 1 / axis 2} \\ & : \text{axis 2 / axis 3} \\ & : \text{axis 3 / axis 4} \\ & = 1 / \sqrt{3} : \sqrt{3} / 3 : 3 / 3\sqrt{3} \end{aligned}$$



↑ St Mary's Chapel, Glastonbury.
Drawing by Keith Critchlow.

SG108.2.4.2 Vesica Progressions (2) Spiral Nesting



The **golden section** is a line segment divided according to the golden ratio: The total length $a+b$ is to the longer segment a as a is to the shorter segment b .

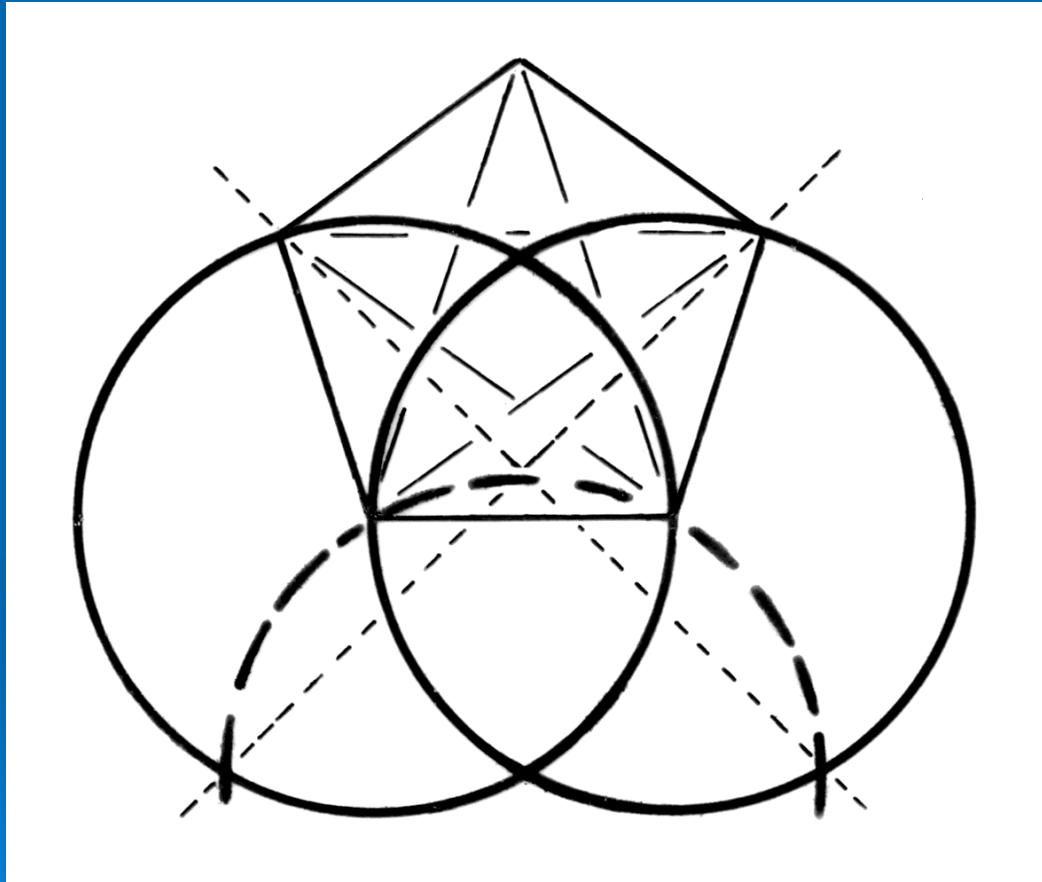
(Wikipedia)

← The quadrant radii, arcs and chords each proceed in Golden Mean ratio.

The quadrant triangle, square & rectangle *areas* each proceed in Golden Mean squared ratio.

SG108.2.5.1 Penta-symmetry in the Vesica (1)

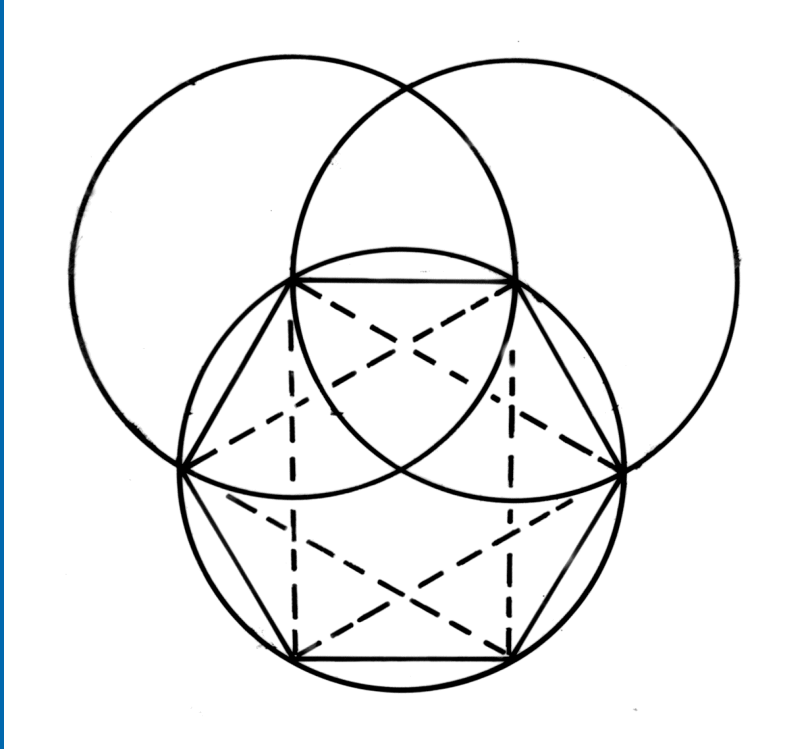
The Pentagon



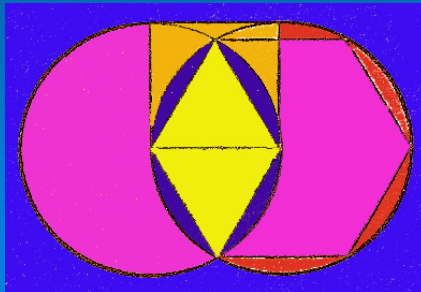
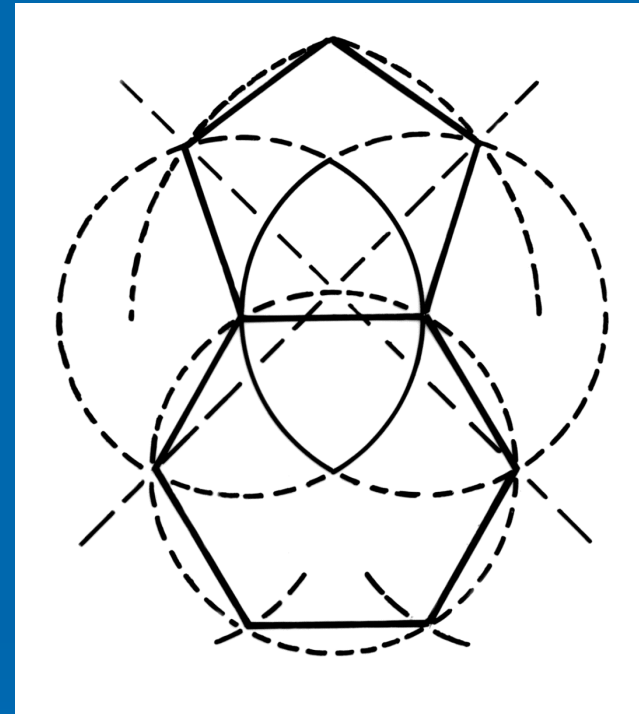
← The traditional way to trace a Pentagon / Pentagram from 3 equal intersecting circles. Again, no measures. Just a *compass with a single opening*.

The pentagon's sides are the radii of the master circle.

SG108.2.6 The Hexagon in the Vesica



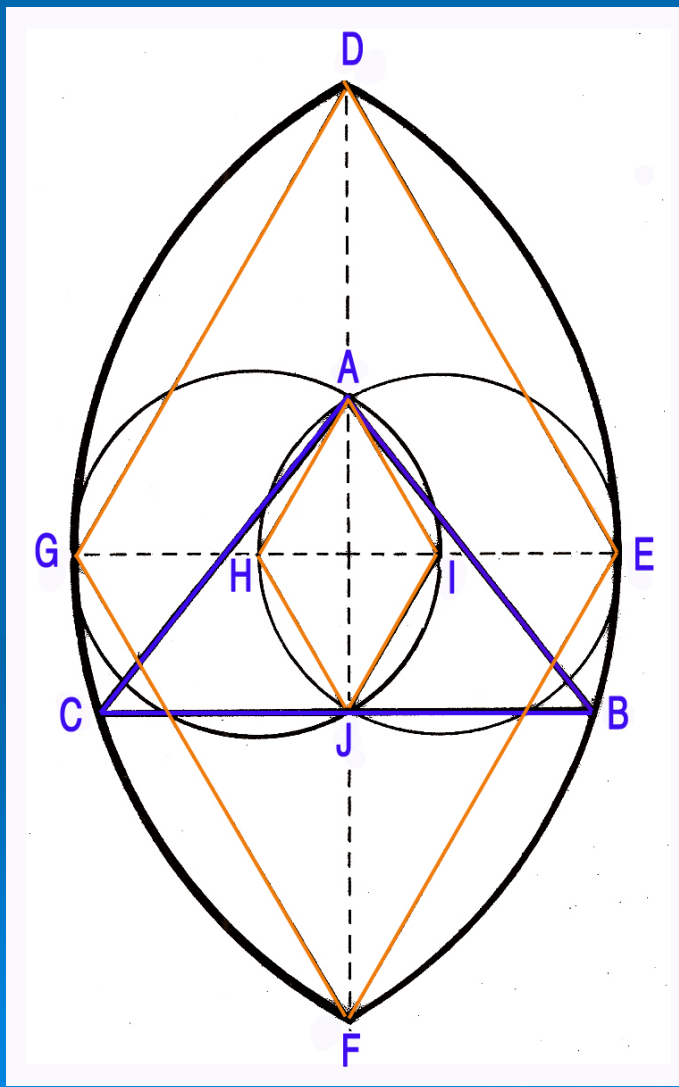
↑ Construction of the Hexagon / Hexagram from 3 Vesica circles.



← Vesica with Hexagon, Rhombus & Square

↑ When combined, the Vesica Pentagon and the Vesica Hexagon form *Dürer's classical drawing*. This diagram is quite symbolic: it unites the archetypal 5 (“*Number of Man*”) of the Pentagon / Pentagram with the archetypal 6 (“*Cosmic Order Number*”) of the Hexagon / Hexagram.

SG108.2.7 The Pyramid in the Vesica



As first described by John Michell in his *View over Atlantis* (1969), the Great Pyramid happens to fit exactly in the Vesica geometry formed by two circles of circumference 1746 ft.

Step #1: Trace 2 circles (centers H & I), each with diameter 555.5 ft and circumference 1746 ft, so that the circumference of one passes through the center of the other. Thus the Vesica AIJH is formed.

Step #2: From E and G, trace 2 arcs with radius 832.5 ft (277.5×3) intersecting D and F, thus forming the larger Vesica GDEF. From J, draw a line parallel to the short axis GE and intersecting the larger Vesica at C and B.

ABC is the Great Pyramid cross section.

$$HI = 277.5 \text{ ft}$$

$$AJ = 277.5 \times \sqrt{3} = 480.6 \text{ ft} = \text{height of Pyramid}$$

$$CB = \text{length of Pyramid base} = 755 \text{ ft} = 277.5 \text{ MY}$$

[MY = Megalithic Yard = 2.72 ft]

$$\text{Area inner rhombus AIJH} = 66,600 \text{ sq ft}$$

$$\text{Area outer rhombus DEFG} = 66,600 \text{ sq yd}$$

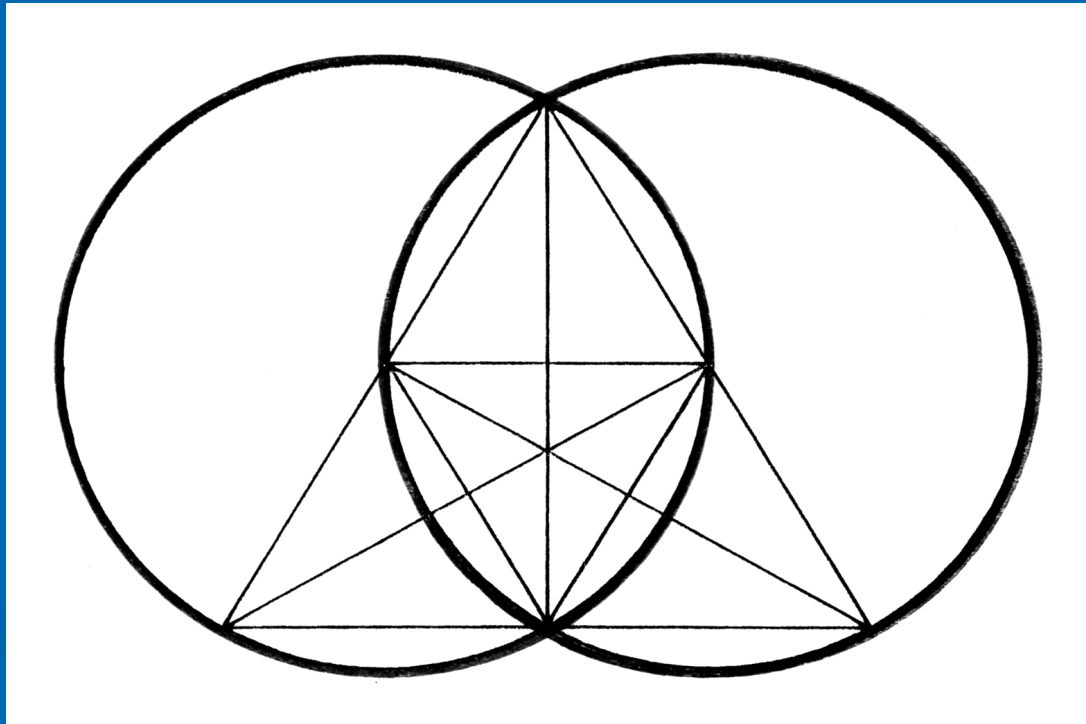
$$\text{Area Pyramid face} = 66,600 \times 2.72 \text{ sq ft}$$

$$\text{Perimeter Pyramid face} = 1110 \text{ MY}$$

$$\text{Perimeter inner rhombus AIJH} = 1110 \text{ ft}$$

$$\text{Perimeter outer rhombus DEFG} = 1110 \text{ yd}$$

SG108.2.8 Tri-Rhombus Vesica

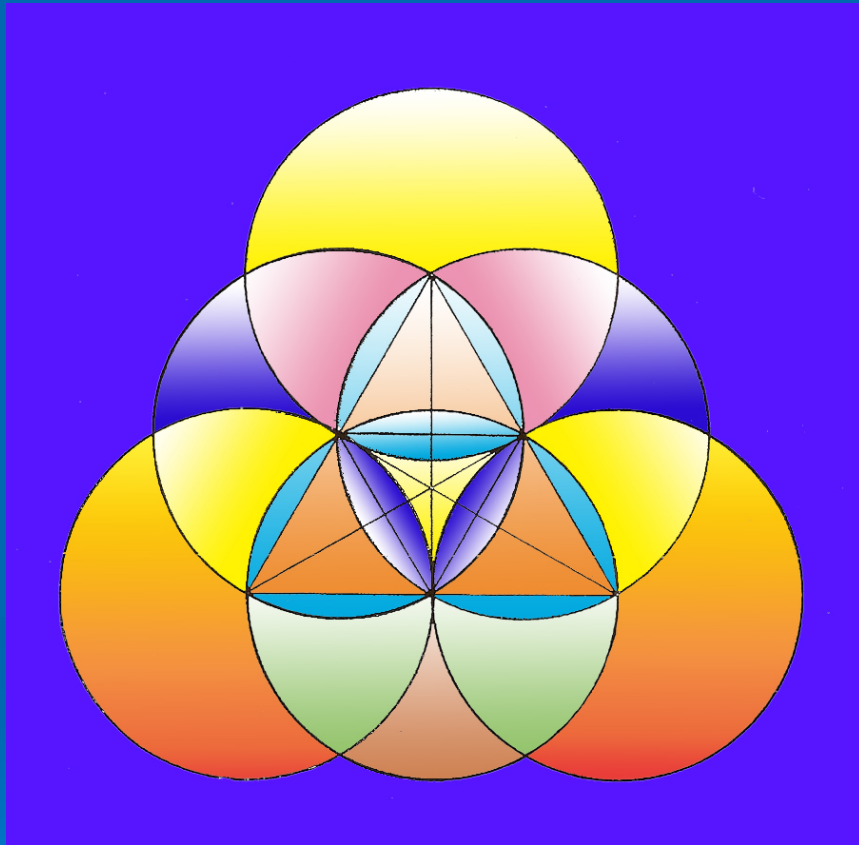


↑ Vesica with 3 Rhombus overlapping to form a larger equilateral triangle.

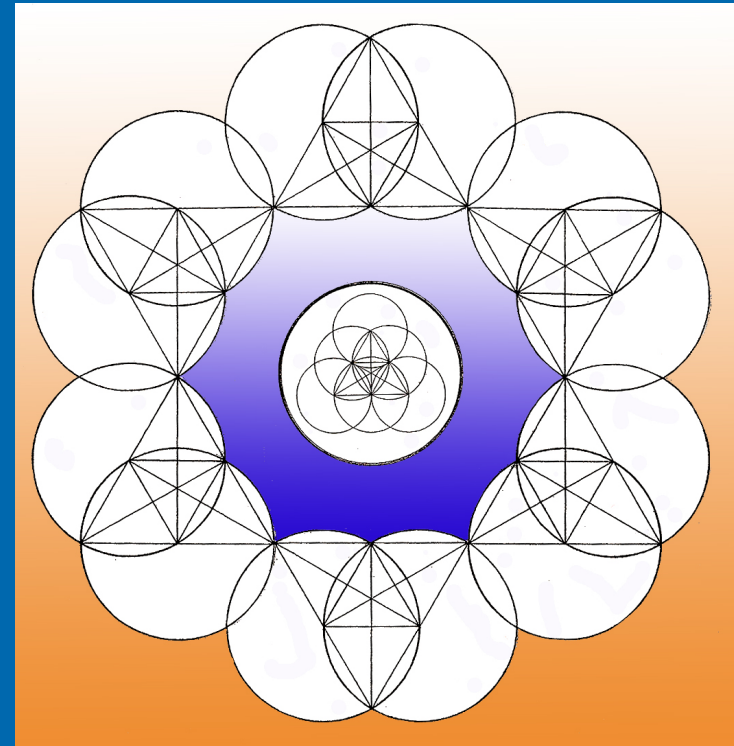


↑ Logo for the
Global Conference
on Sacred Geometry.
Sedona, AZ, 2004.

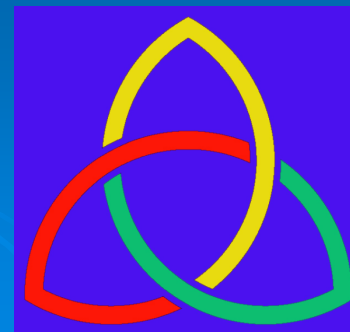
SG108.2.9 The Tri-Vesica



↑ The Tri-Vesica geometry



↑ Study for StarWheel #115



← Triquetra symbol



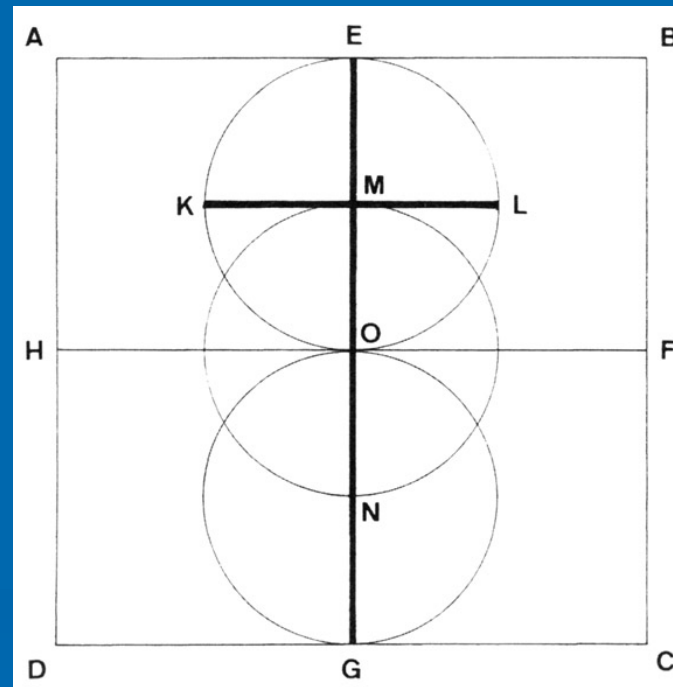
“Tree of the Soul”

William Law. c. 1770

“The Works of Jacob Boehme”.

SG108.2.10.1 Vesica Ladders (1)

Vesicas can be stacked up to form “ladders” or inter-dimensional pathways of ascension.



The Vesica geometry underlying the “Latin Cross” shows its harmonic symbolism. The Latin Cross functions on a Trinity principle and radiates on the 3 bodies: body - mind - spirit. The junction “O” is called “Noeud de Vie” (“Knot of Life”).

[Another geometry of the Latin Cross is based on PHI. See [◆SG303](#)].

SG108.2.10.2 Vesica Ladders (2)

According to David Fideler, in his remarkable study of Ancient Cosmology and Early Christian Symbolism *“Jesus Christ, Sun of God”* (1993):

“Hellenistic cosmological speculation was essentially trinitarian in nature. The Pythagoreans, for instance, saw the cosmos as a dynamic union of complementary principles, joined by a mean term: the power of Logos and Harmonia, the power of mediation.”

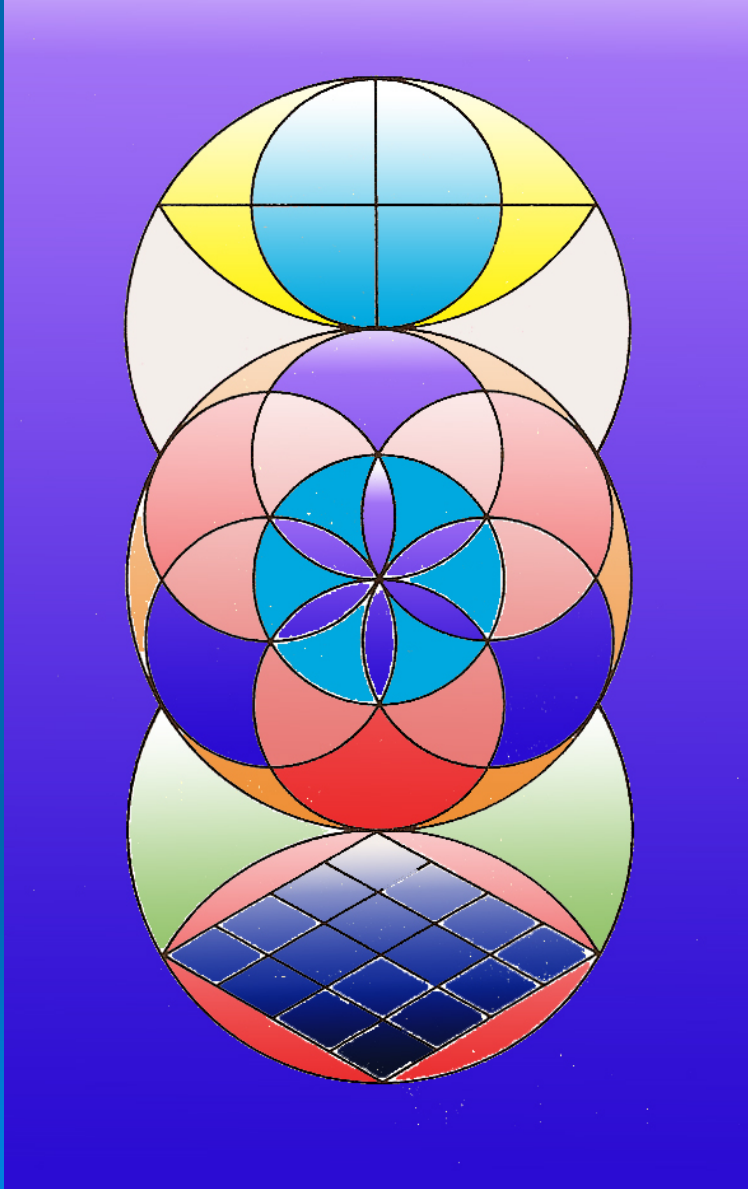
The lower circle in the diagram on the left represents the sensible World of Change & Becoming.

The middle sphere represents the mediation between the two extremes: it is the world of Humanity featuring the Wheel of Life (Flower of Life). The upper sphere represents the world of Infinite Spirit.

In the sea of the lower world the Vesica contains a “net” in the shape of a rhombus. The upper world contains a corresponding Vesica, like a cup turned upward and holding a fruit.

This whole cosmology speaks of “3 in 1” and “1 in 3”.

← The 3 Worlds of Hellenistic Cosmology.

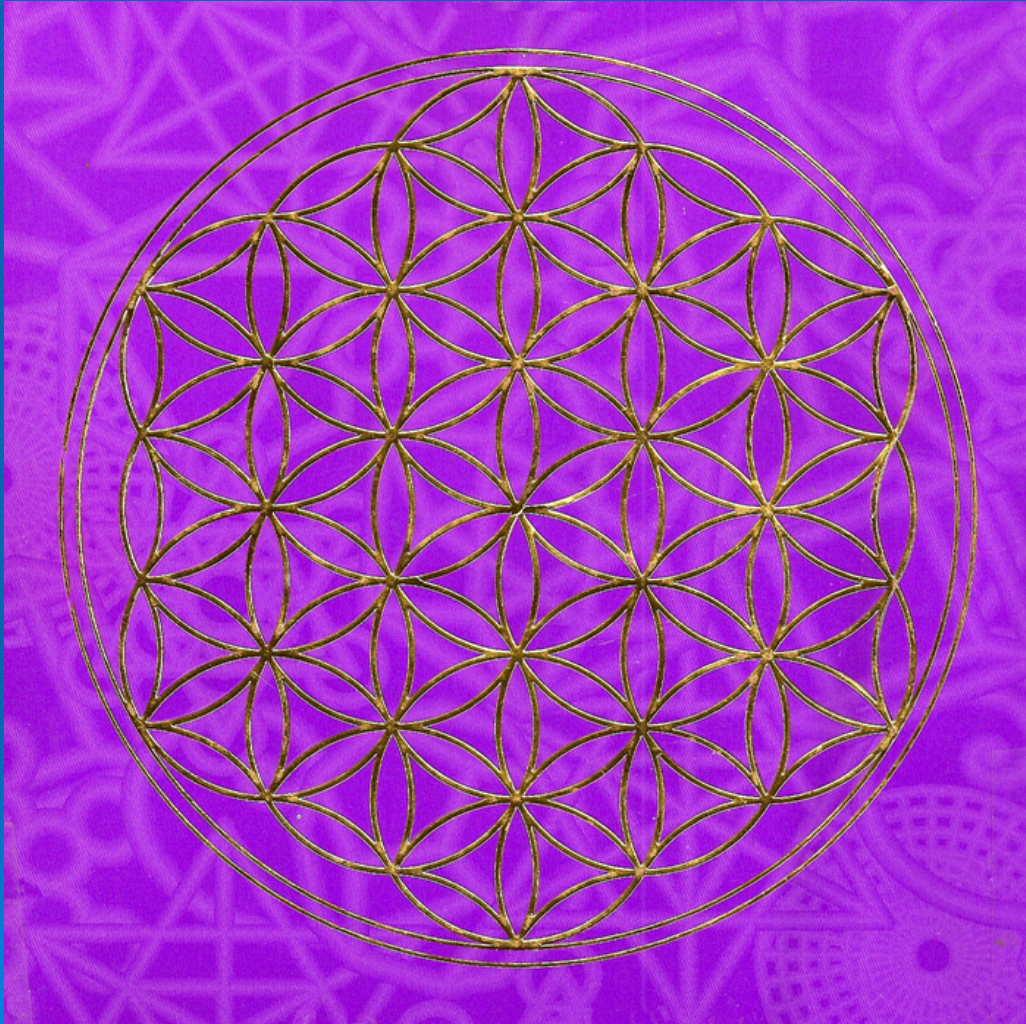




SG108.2.10.3
Vesica
Ladders
(3)

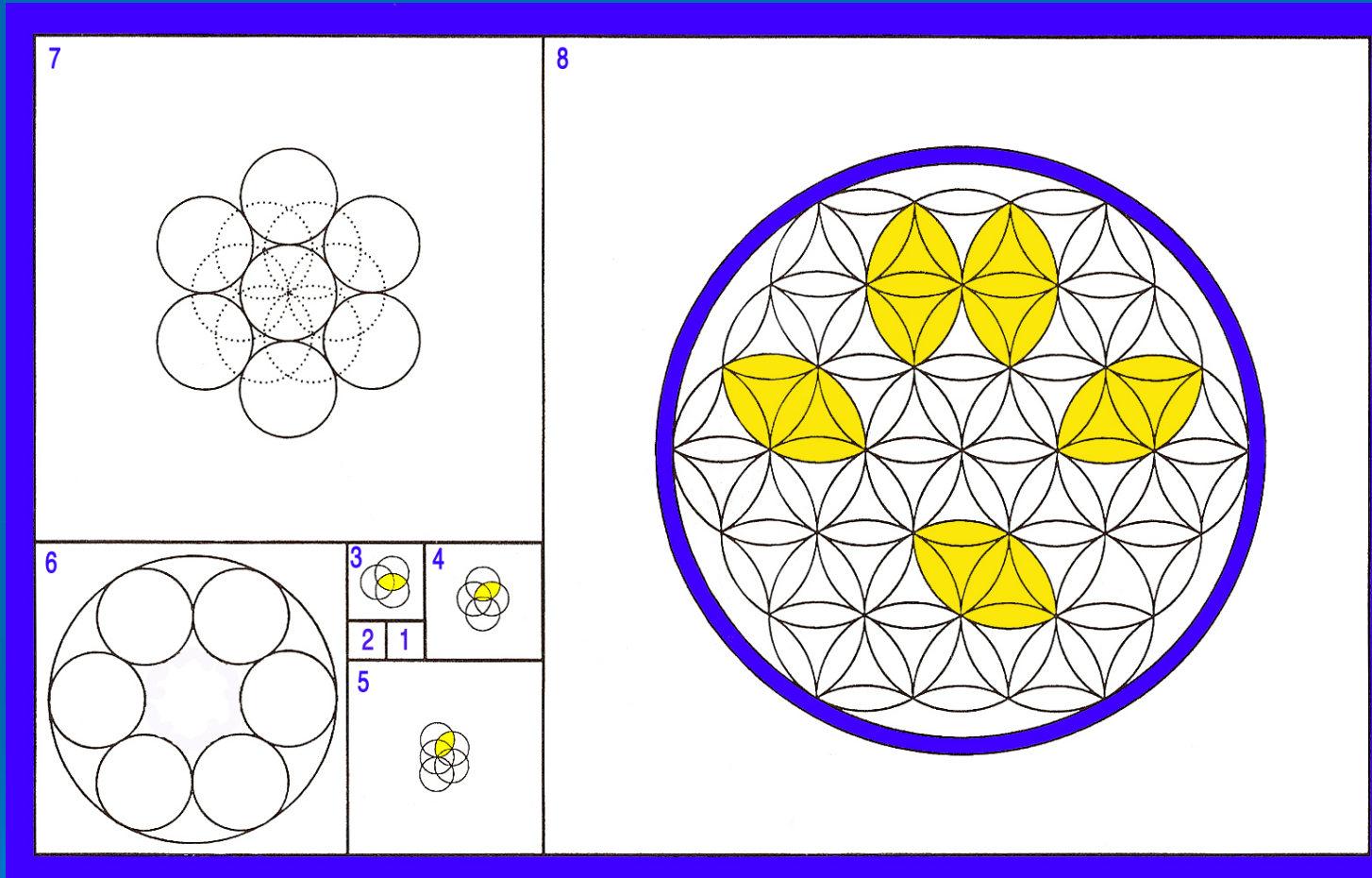
← [StarWheel](#)
Mandala #89
“Tri-Sula”

SG108.3 Chapter 3. The Flower of Life Geometries



← The Flower of Life design on the cover of Drunvalo Melchizedek's Book: *The Ancient Secret of the Flower of Life.*

SG108.3.1.1 Vesicas in the “Flower of Life”



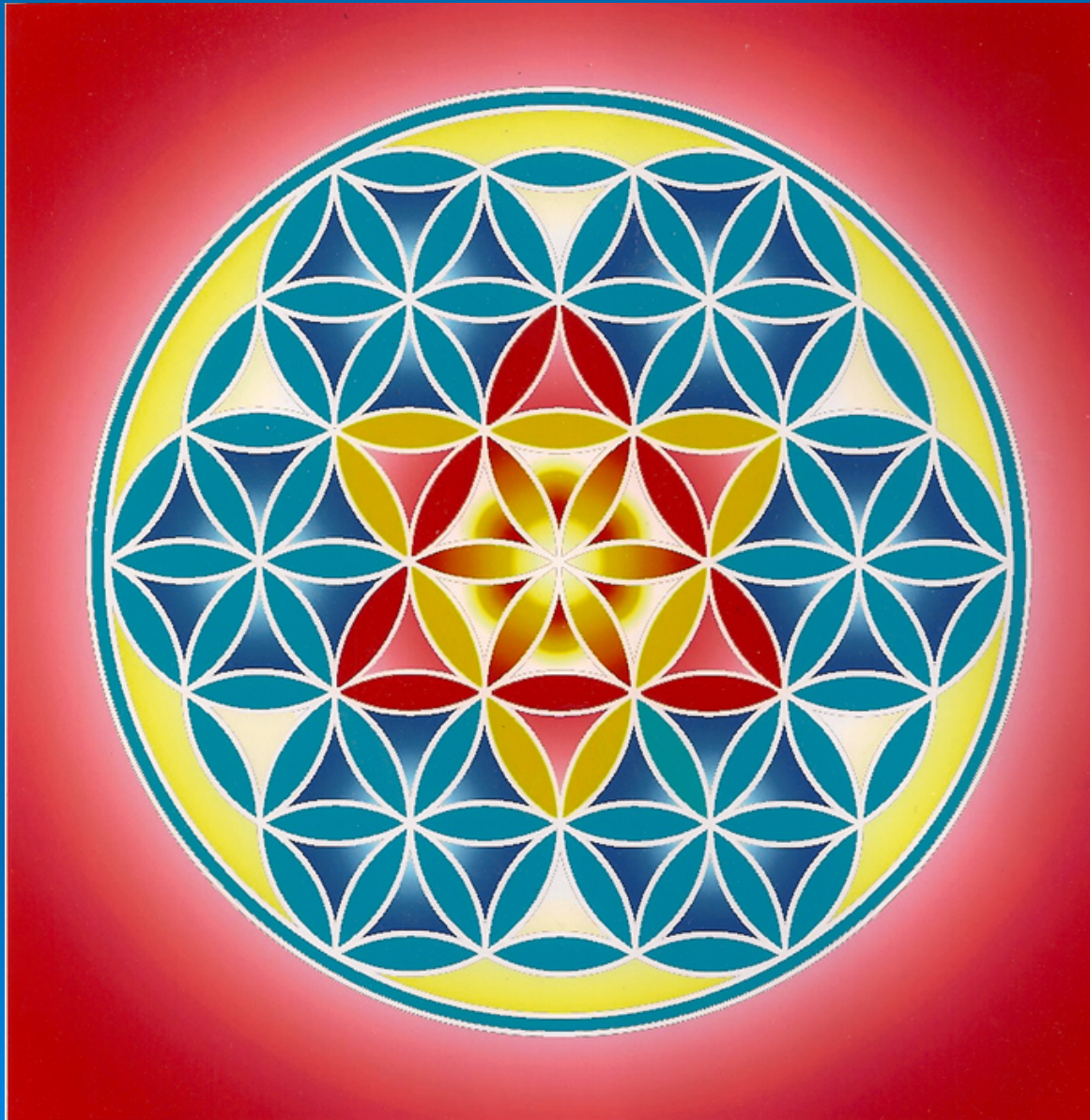
↑ Building up the Flower of Life design from 1 to 8 by adding successive circles.

Examples of Vesica shapes are outlined in yellow.

The frame is a Golden Rectangle formed by “whirling squares” in Fibonacci / Phi proportion.

(Drawings after Drunvalo Melchizedek & R. Dannelley)

SG108.3.1.2
**The Flower
of Life**










**How many
Vesicas
Can you count?**

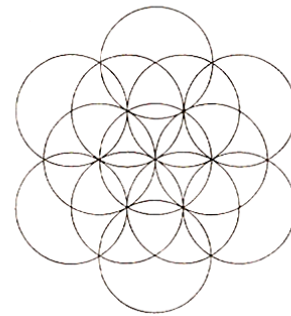
**How many
Vesiculas?**

(A "vesicula" is the
elongated "petal")

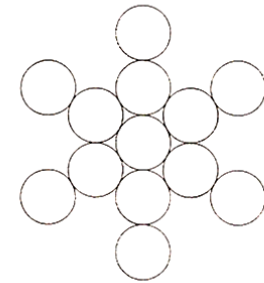
← Flower of Life
by Jos.

SG108.3.2.1 The FOL Progressions (1)

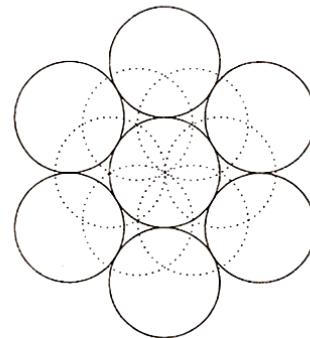
- | | | |
|---|---|--------------------------|
| 1 |  | Monad |
| 2 |  | Dyad (Vesica) |
| 3 |  | Triad |
| 4 |  | Tetrad |
| 5 |  | Pentad |
| 6 |  | Hexad |
| 7 |  | Heptad
(Seed of life) |



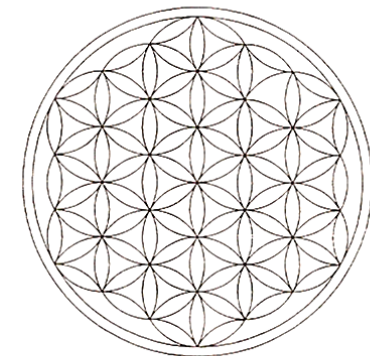
"Egg of Life"



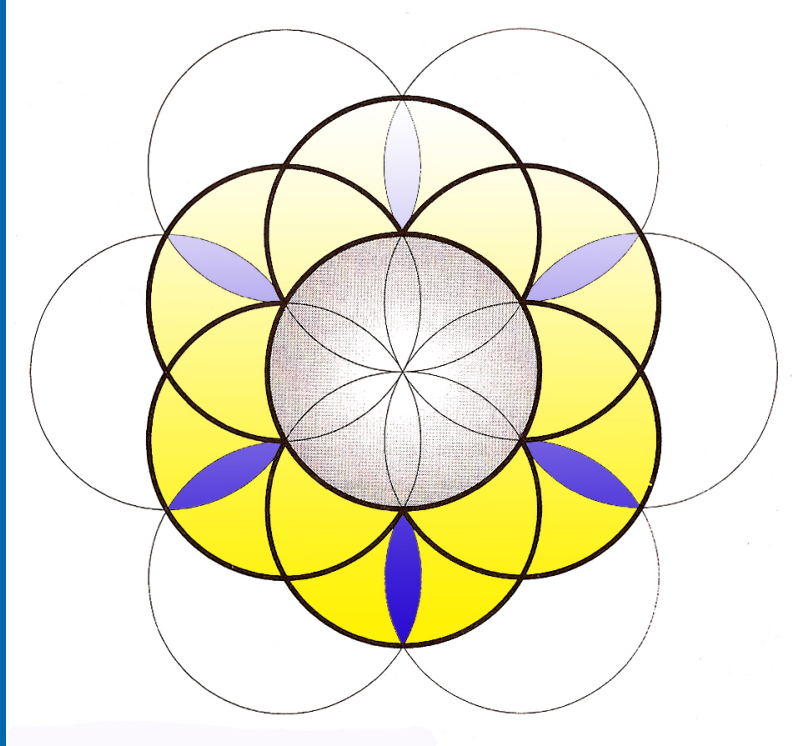
"Fruit of Life"



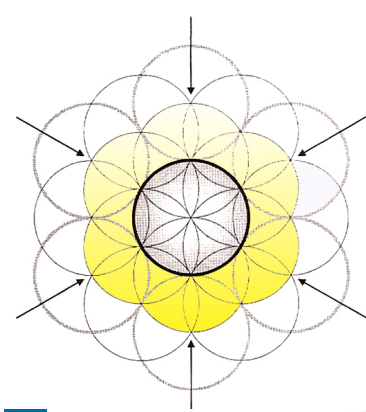
7 Circles (13)
(2nd rotation)



"Flower of Life"

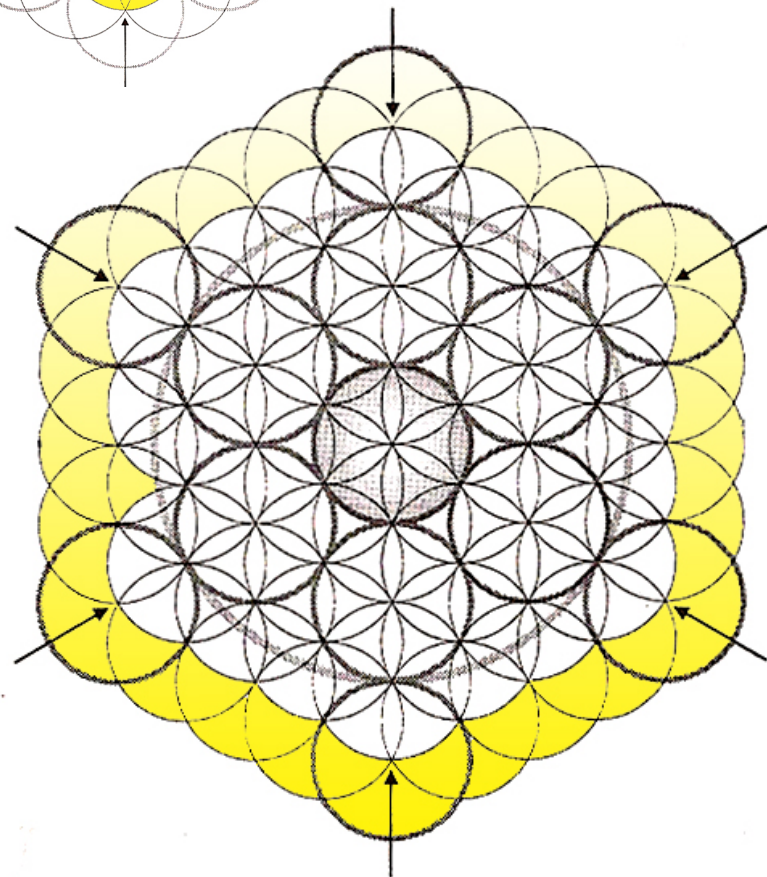


↑ Genesis pattern
with Egg of Life outlined

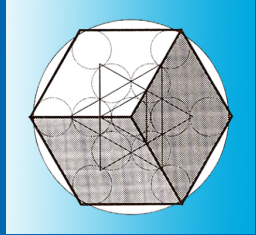


← 3rd rotation
(19 circles)

↓ 5th rotation
(51 circles)

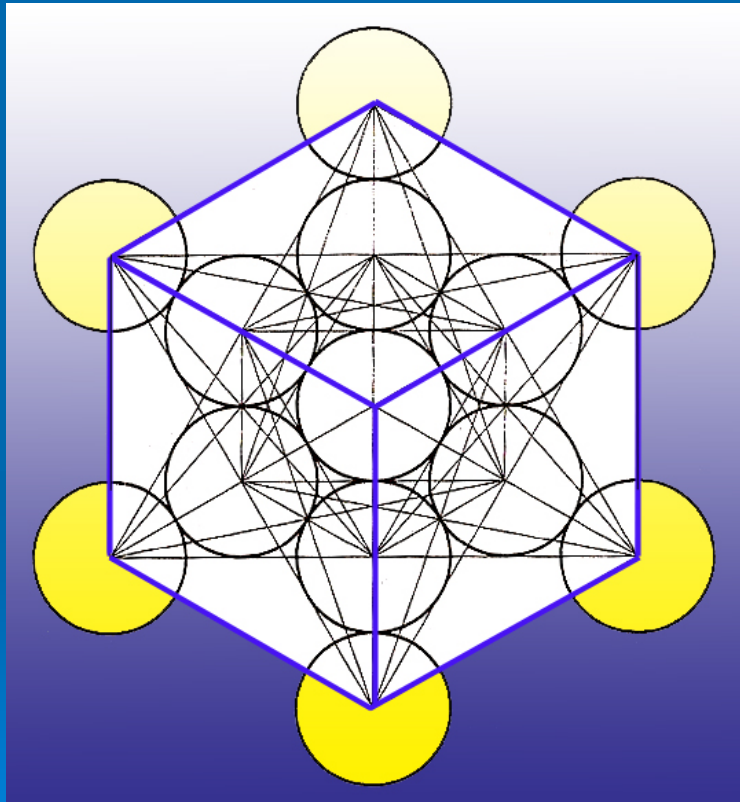


SG108.3.2.2 The FOL Progressions (2)

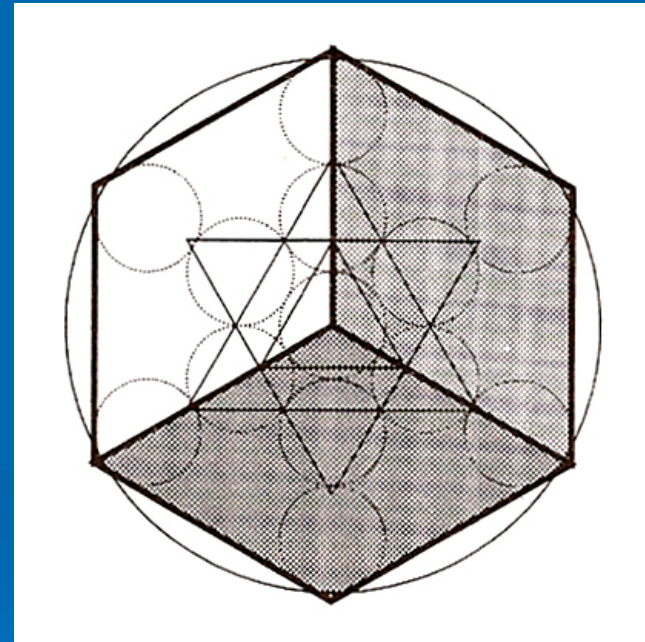


SG108.3.2.3 The FOL Progressions (3) Metatron's Cube

Out of the 5th rotation comes the “*Fruit of Life*”, also known as “*Metatron's Cube*”.
Metatron's “*Cube*” shows up when you connect all the centers of the circles with straight lines.



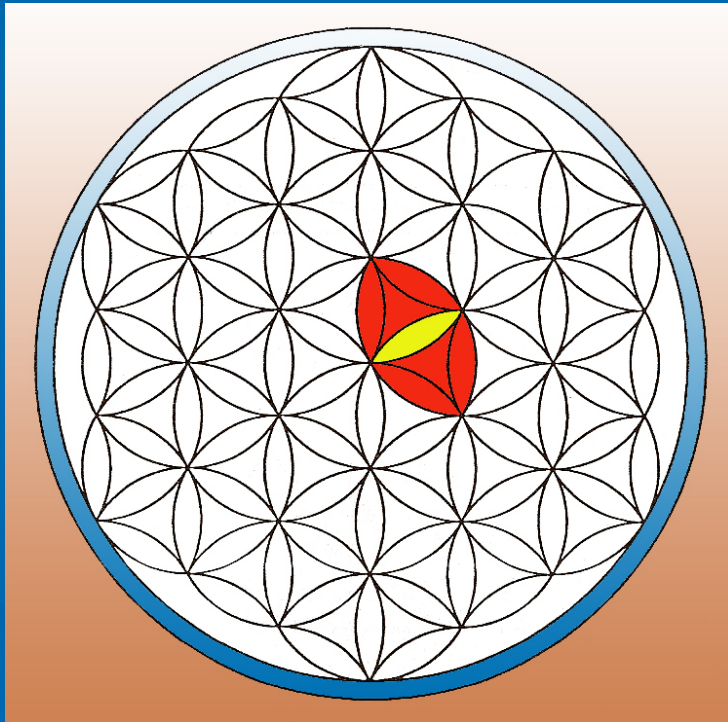
↑ Metatron's Cube.
The “cube” is outlined in blue.



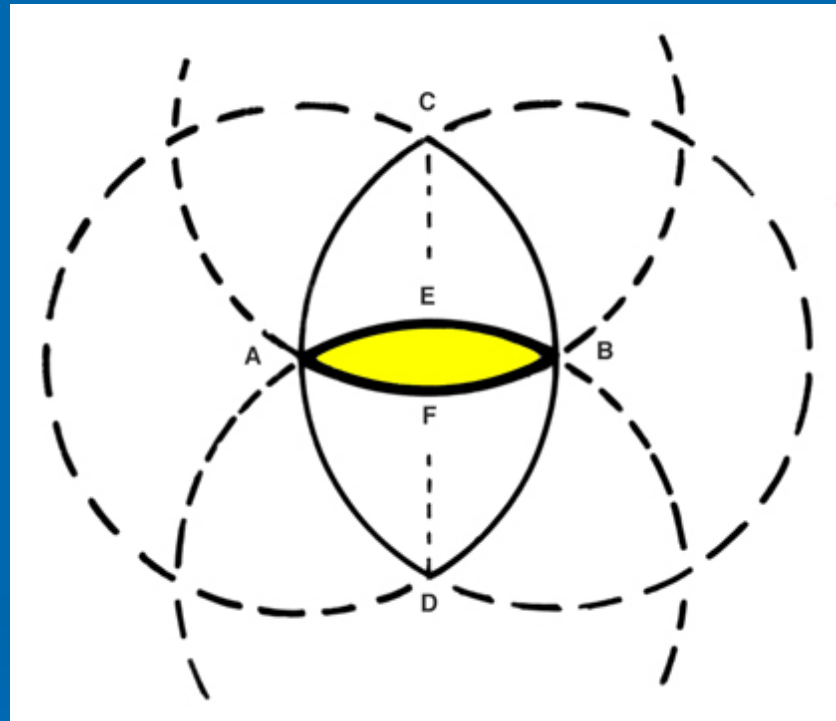
Metatron's Cube is a Primary Matrix:
out of Metatron's Cube,
all 5 Platonic Solids can be created.

◆ SG107

SG108.3.3 The “Vesicula” or “Petal of Life”



↑ The Flower of Life
with one Vesica in red
and one Vesicula in yellow.



↑ The small “lens” AEBF is the “Vesicula”
or “Petal of Life”.

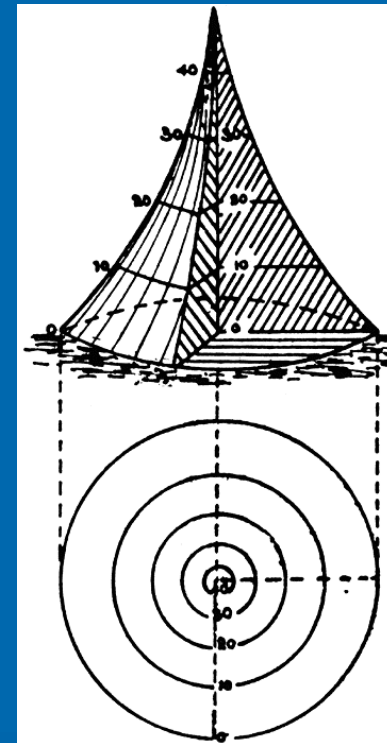
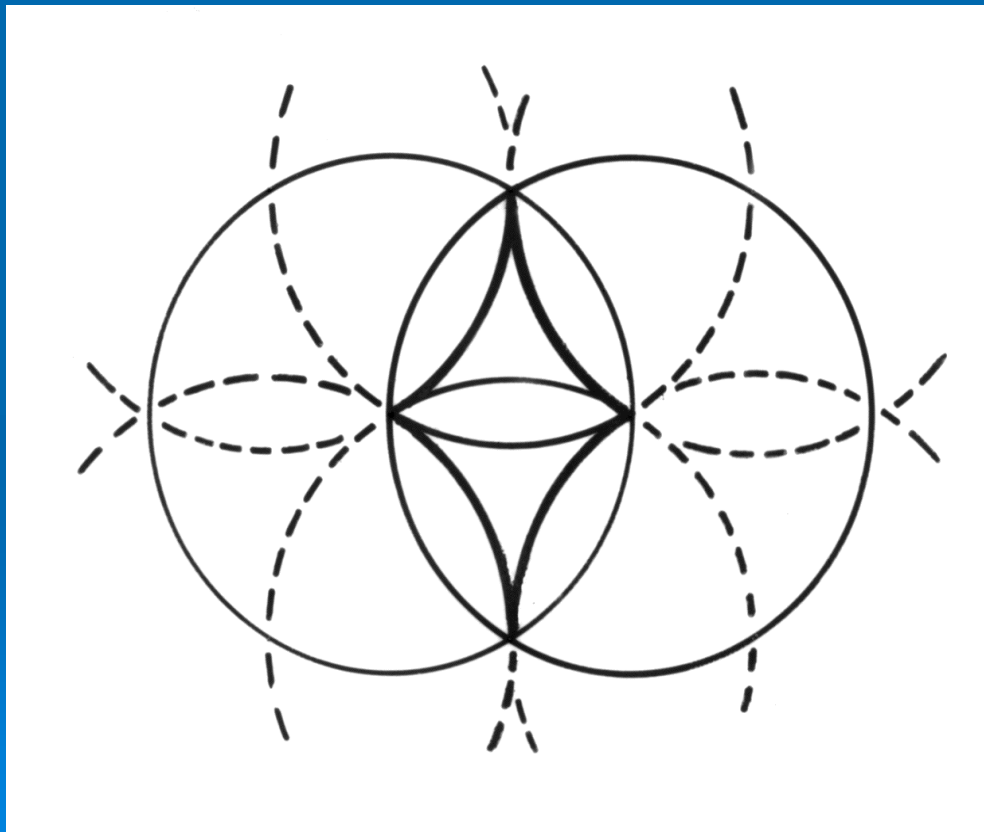
It is the “eye” or “mouth” of the Vesica.
Not a true Vesica.

The two primordial parents have been just “touching”
and looking into each other’s eyes.

SG108.3.4 The Concave Rhombus

Another distinct member of the Flower of Life family is the *Concave Rhombus* (*imploded Vesica / endo-rhombus*) arising from 8 equal circles intersecting at their centers.

No need to measure - just use the same compass opening and trace.
This “soft rhombus” contains a “*Vesicula*” or “*Vesica Petal*”.



The geometry of “*concave cones*” is widely used in science, from cosmological models to templates of polarization in vision.



SG108.3.5 An ancient Sun Ball

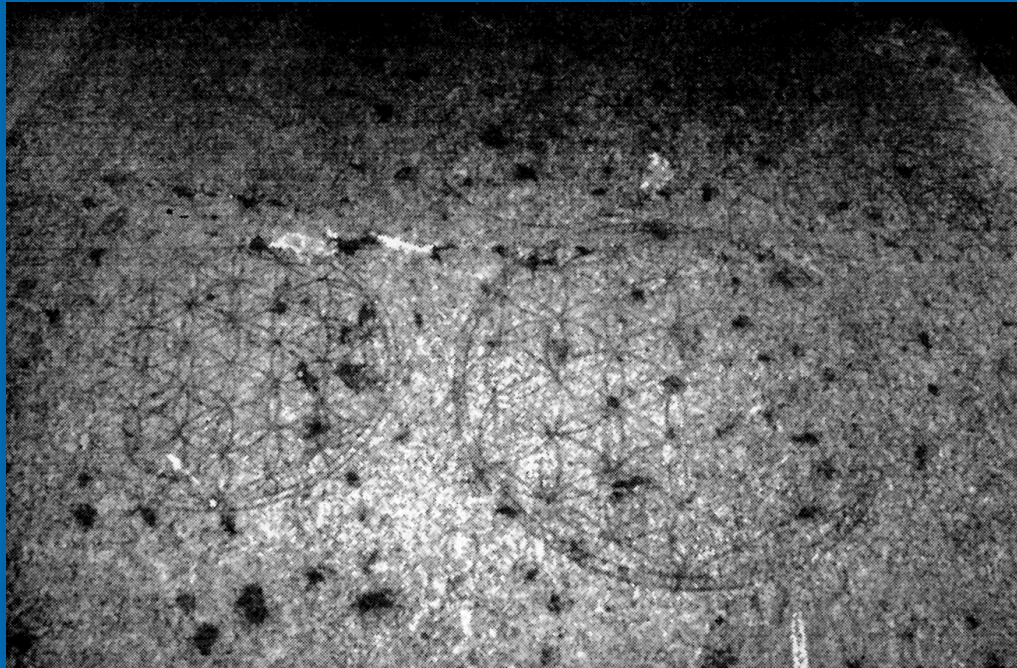
← FOL metal sphere used as a “sun ball” during Akbar’s time (1542 - 1605).

The “sun game” of polo was actually played with an ignited “sun ball”.

(Jaipur, India)

Notice how you can see the Vesicas, the Vesiculas and the two equilateral triangles (or slightly concave triangles) of the larger rhombus inscribed in the Vesica.

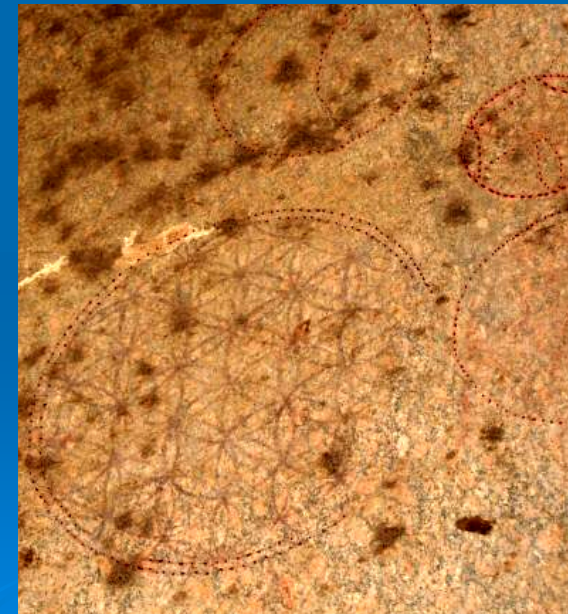
SG108.3.6.1 **FOL Examples (1)**
Abydos



Flower of Life designs at the Osirion (Temple of Osiris),
Abydos, Egypt.
(Credit: D. Melchizedek. *The Ancient Secret of the Flower of Life.*)

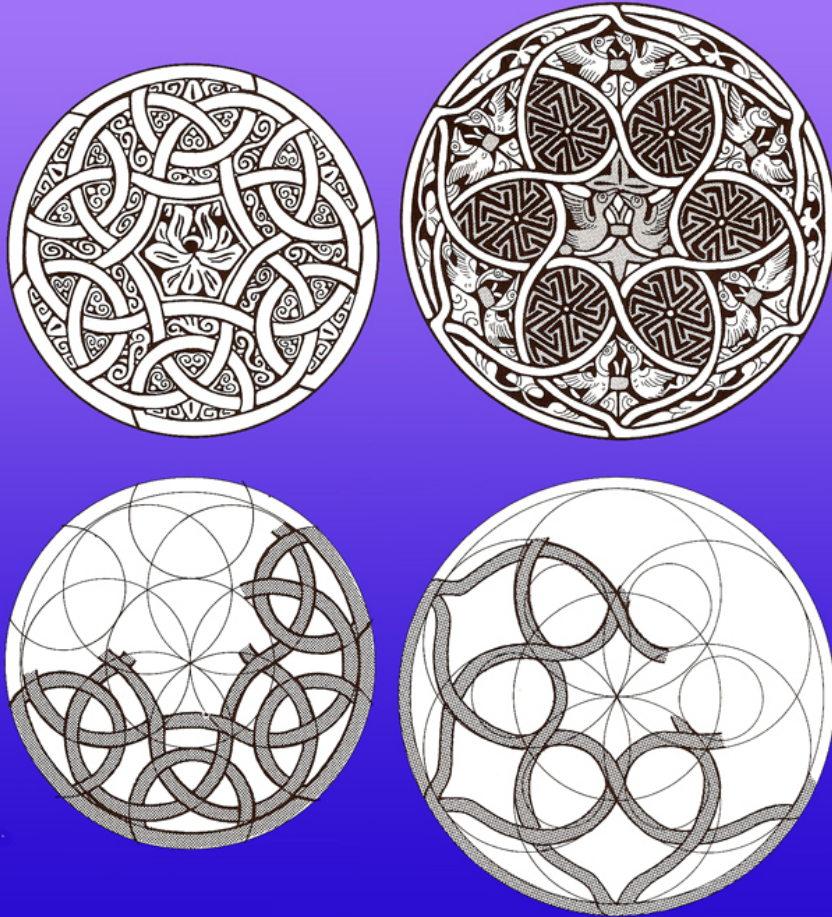


The FOL designs are located here.

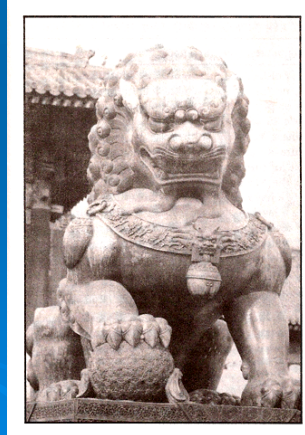
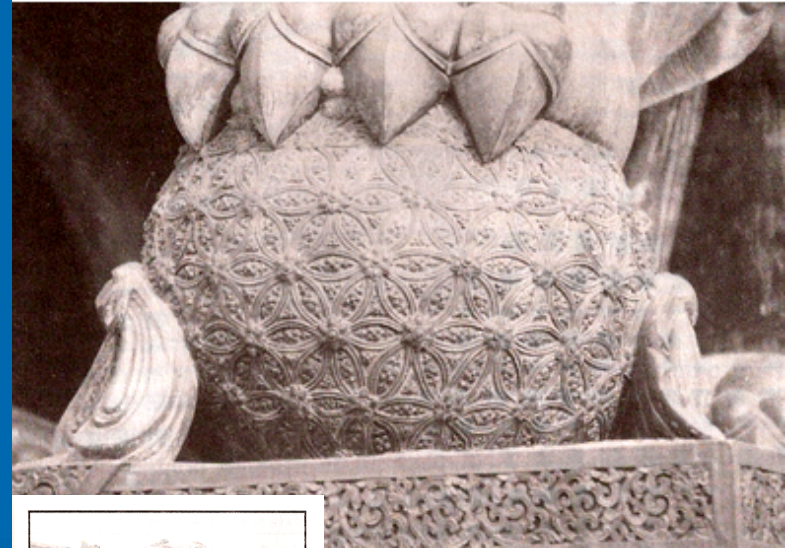


www.kch42.dial.pipex.com/egypttour_osirion.html
2008 archeological data.

SG108.3.6.2 FOL
Worldwide (2)



Islamic designs based on the Flower of Life geometry.
Left: Khurasan, Eastern Iran
Right: Egypt. 14th century.
(Eva Wilson. *Islamic Designs*. Dover, 1988)



← ↑ Stone Lion
pawing a FOL sphere.
Forbidden City,
Beijing.

SG108.3.6.3 FOL Worldwide (3)

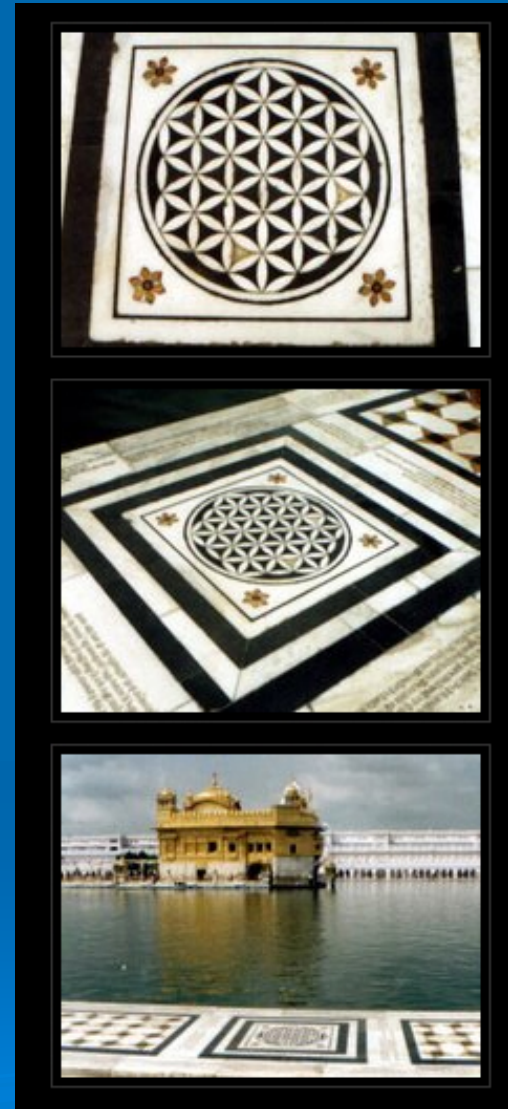


(Images: Google/Flower of Life)



→ The Golden Temple
at Amritsar, India,
offers many examples of
Sacred Geometry mosaics.

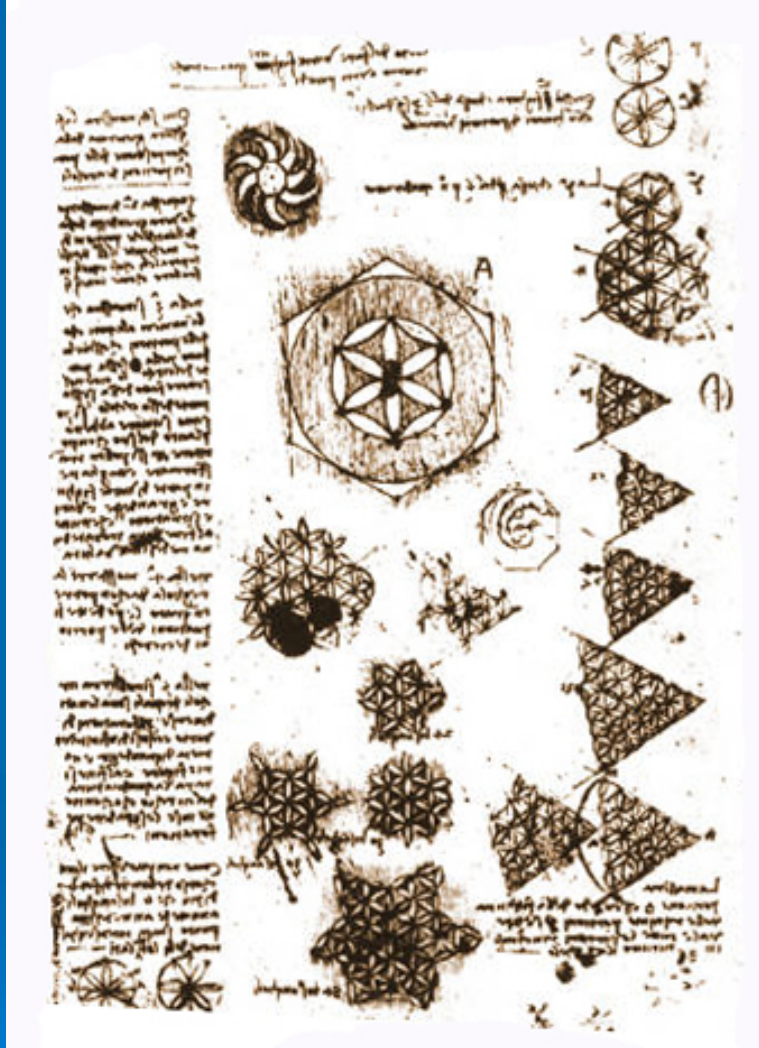
Here is the Flower of Life
design →.



SG108.3.6.4 FOL Examples (4) Da Vinci

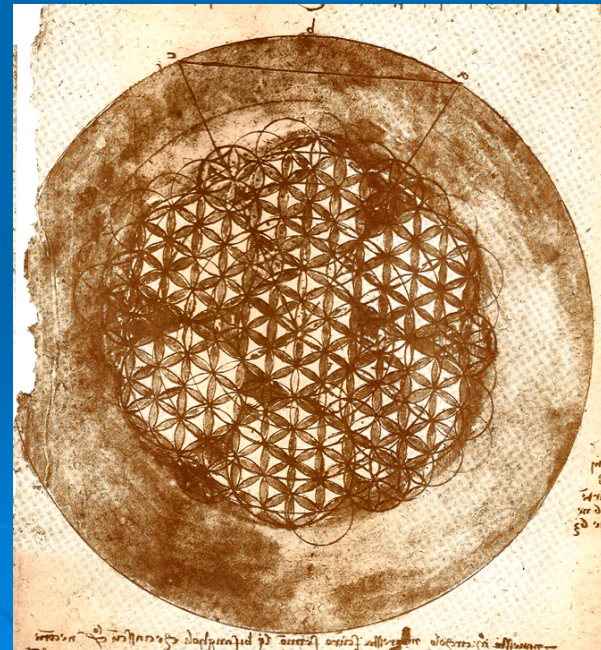
The principle of proportion dominated Leonardo's geometric enquiries. This research, started with his collaboration to Luca Pacioli's *De Divina Proportione*, was pursued through many variations of this basic geometric "equation": curvilinear stars, using *bisangoli* = double angles similar to olive leaves ("Vesiculas"), inscribed in a circle and forming complex & harmonious designs.

In brief, the Flower of Life.

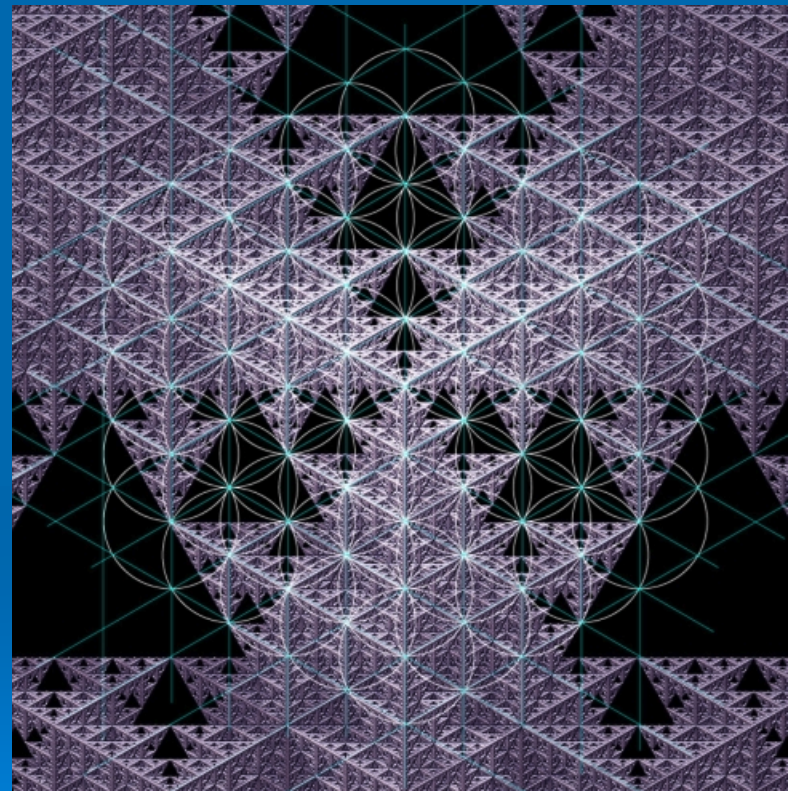


↑ Codex Atlanticus. 168r-a

→ Codex Atlanticus 110v-a

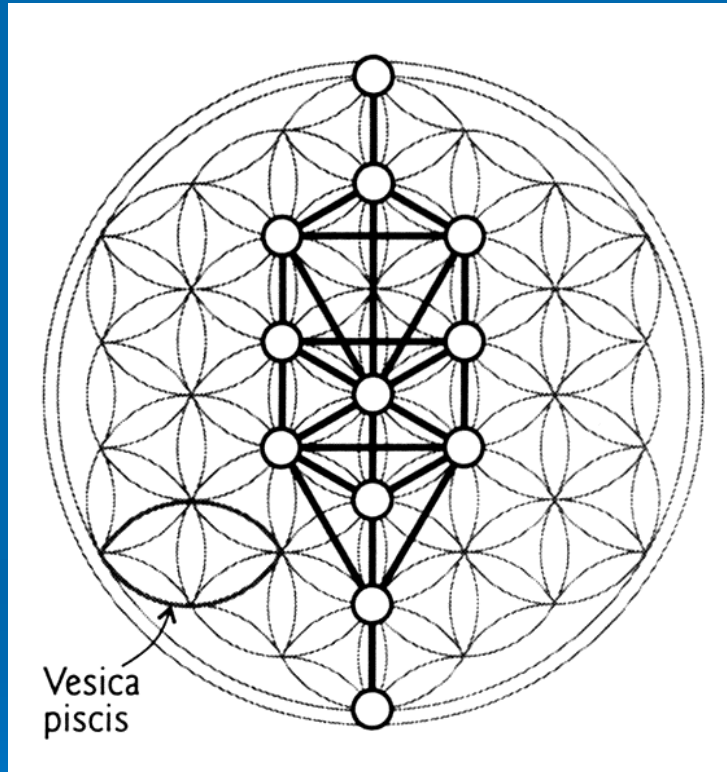


SG108.3.6.5 FOL
Examples (5)
Contemporary

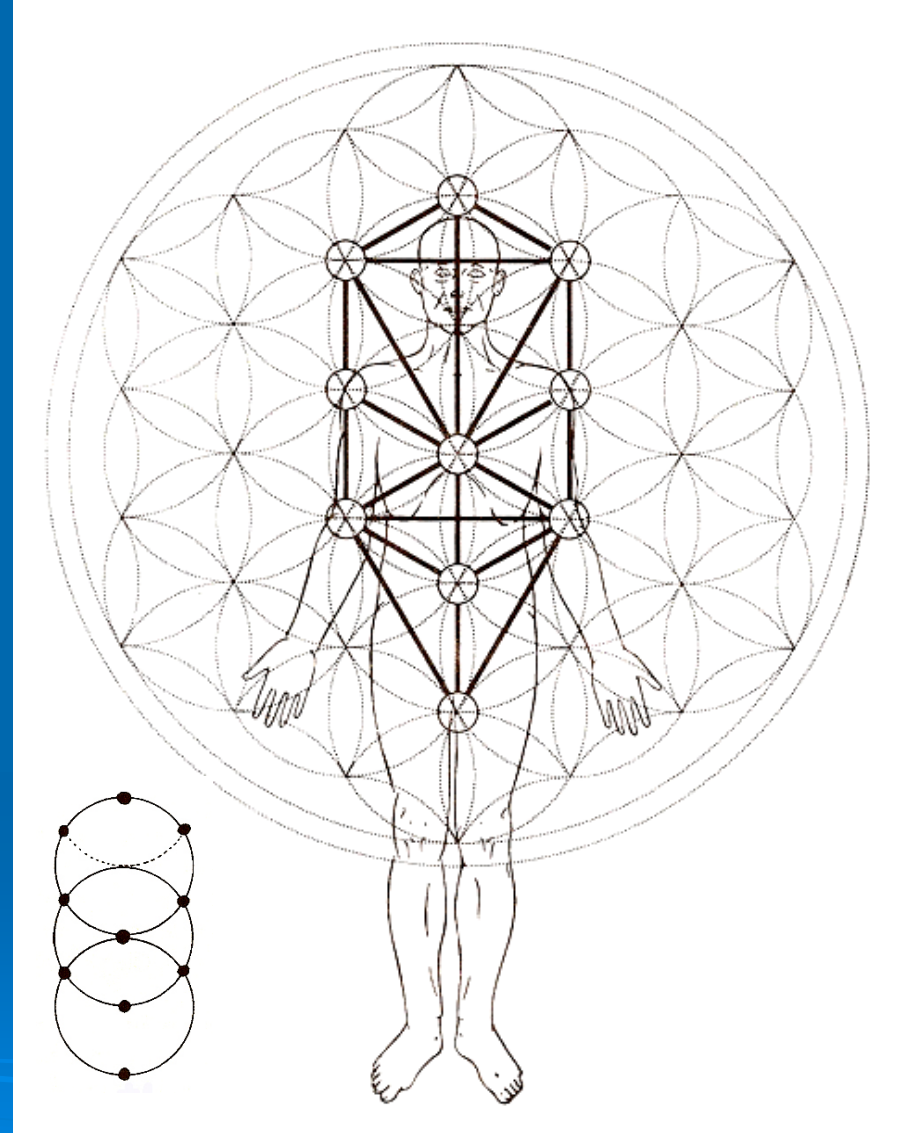


↑ Sierpinsky Flower of Life
www.phidelity.com

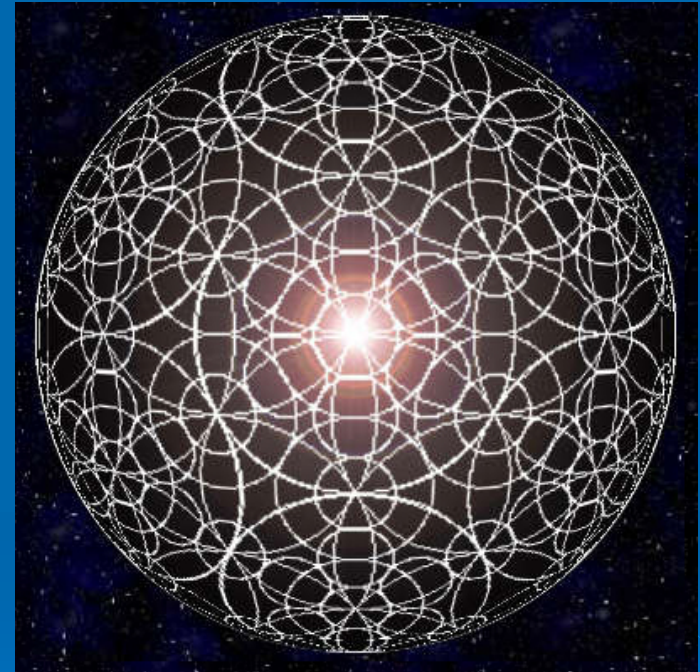
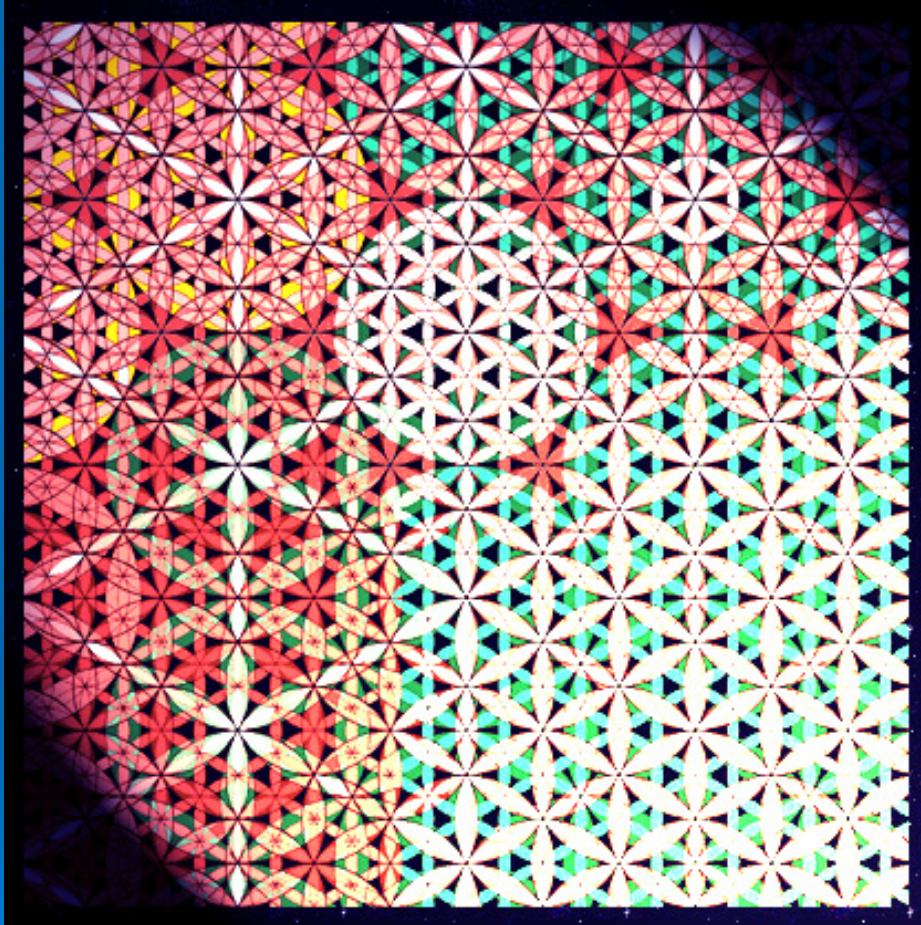
SG108.3.7 The Tree of Life in the FOL



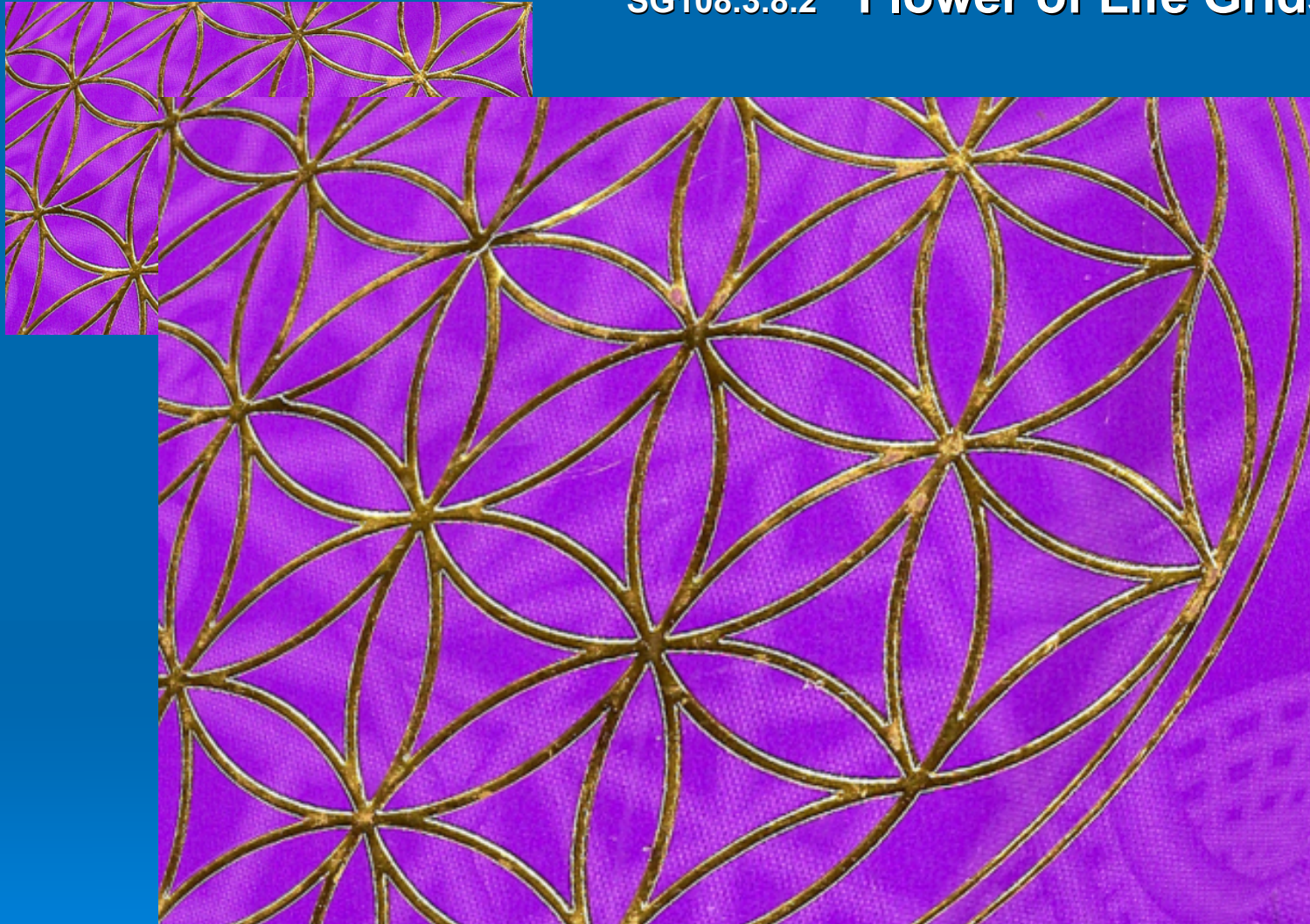
↑ The Kabbalah's Tree of Life fits perfectly with the Flower of Life's Vesicas. Every path in the Tree of Life equals the length or the width of a Vesica shape.



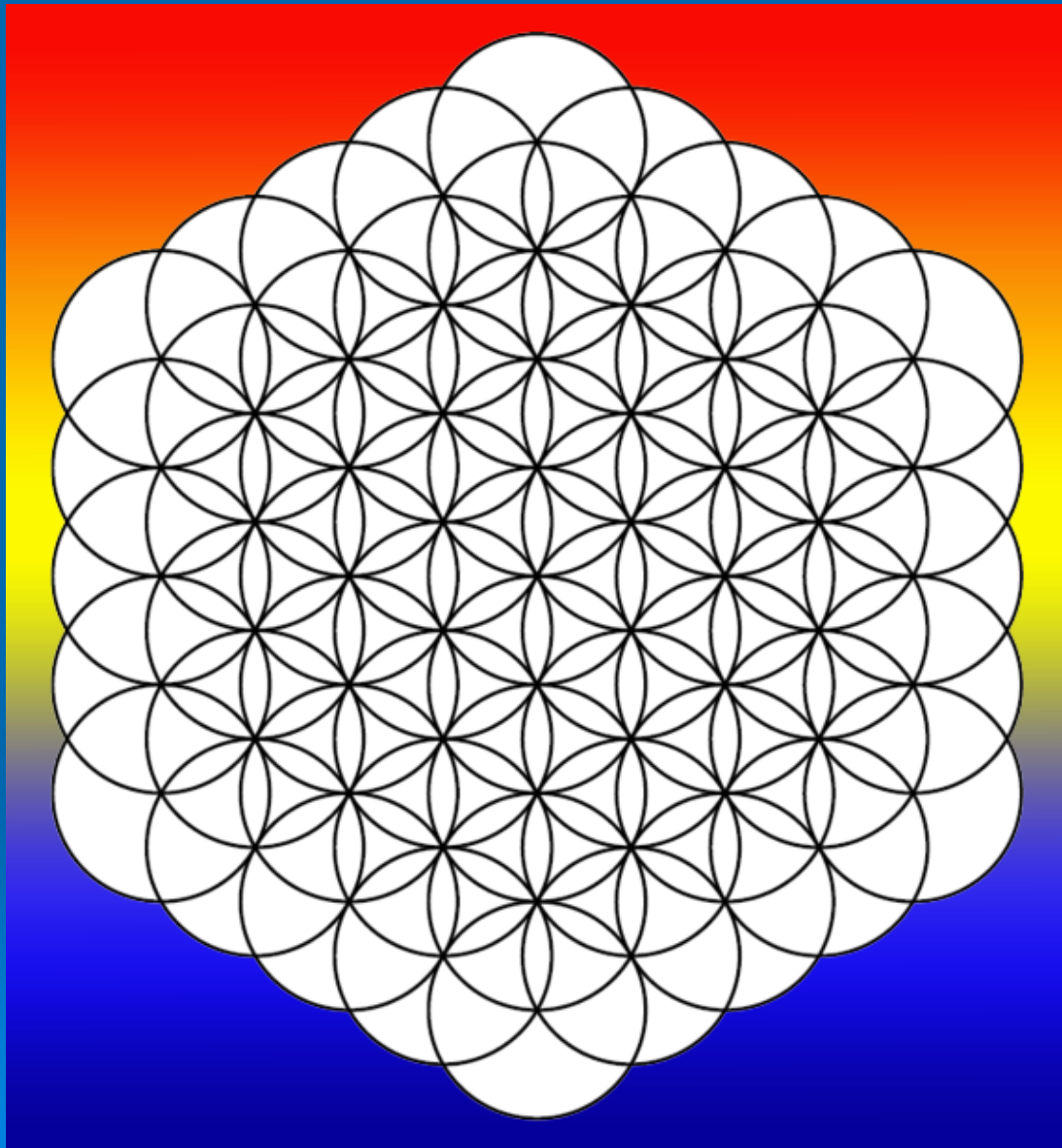
SG108.3.8.1 Flower of Life Grids (1)



SG108.3.8.2 Flower of Life Grids (2)



SG108.3.9 Higher-Dimensional FOL



The 2D Flower of Life design is only the projection of higher-dimensional creation grids. These can be accessed through the proper *Yoga of Perception*.

Sit away from the screen (or the printed enlarged image) and let the FOL slowly open, like the flower it is. You can use “soft vision” or the “stereogram focus” *in front or back* of the image, moving your index finger back & forth between your eyes and the image.

Allow yourself to enter a state of contemplative gazing and trust your inner vision. This is Sacred Geometry’s “*corpo transparente*” inner vision.

You are not seeing with your eyes : your spirit is seeing through your eyes.

SG108.3 Chapter 4. Medieval Vesicas



← Christ
in the Vesica.
Chartres,
main (West) bay.

SG108.4.1 Vesicas in Medieval Times

In the Middle Ages, the Vesica was widely used as the *Mandorla*.

A Mandorla is a Vesica Piscis shaped *aureola* which surrounds the figures of Christ and the Virgin Mary in traditional Christian art. It is especially used to frame the figure of Christ in Majesty in early medieval and Romanesque art, as well as Byzantine art.



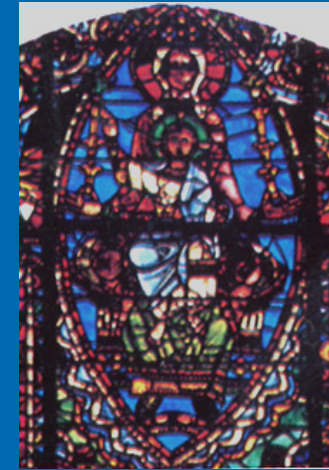
An *aureola* or *aureole* (diminutive of Latin *aurea* = "golden") is the radiance of luminous cloud which, in paintings of sacred personages, surrounds the whole figure. The aureola, when enveloping the whole body, generally appears oval or elliptical in form. When it appears merely as a luminous disk around the head, it is called specifically a *halo* or *nimbus*, while the combination of nimbus and aureole is called a *glory*.

The Mandorla has been traced through the Egyptians to the ancient Greeks and Romans. Oriental sacred art also uses flaming Halos and Vesicas around holy beings.

The Mandorla is symbolic of the glow of spiritual light coming from a higher dimension, through the doorway of the Vesica. The two sides of the Vesica represents the union of opposites: spirit & matter.

Another use of the Vesica was in the medieval seals. Vesica seals were "holy" and the privilege of monastic & ecclesiastical orders as well as nobility women (as representatives of the Virgin Mary). After the 14th century, most seals became circular.

(Images of seals from: Medieval Institute. <http://www.nd.edu/~medvllib/seals/>)



↑ Virgin Mary .
Stained glass window,
Chartres.



↑ Blessed Virgin.
Seal. c.1222

SG108.4.2.1 Vesicas in Medieval Christian Art (1)

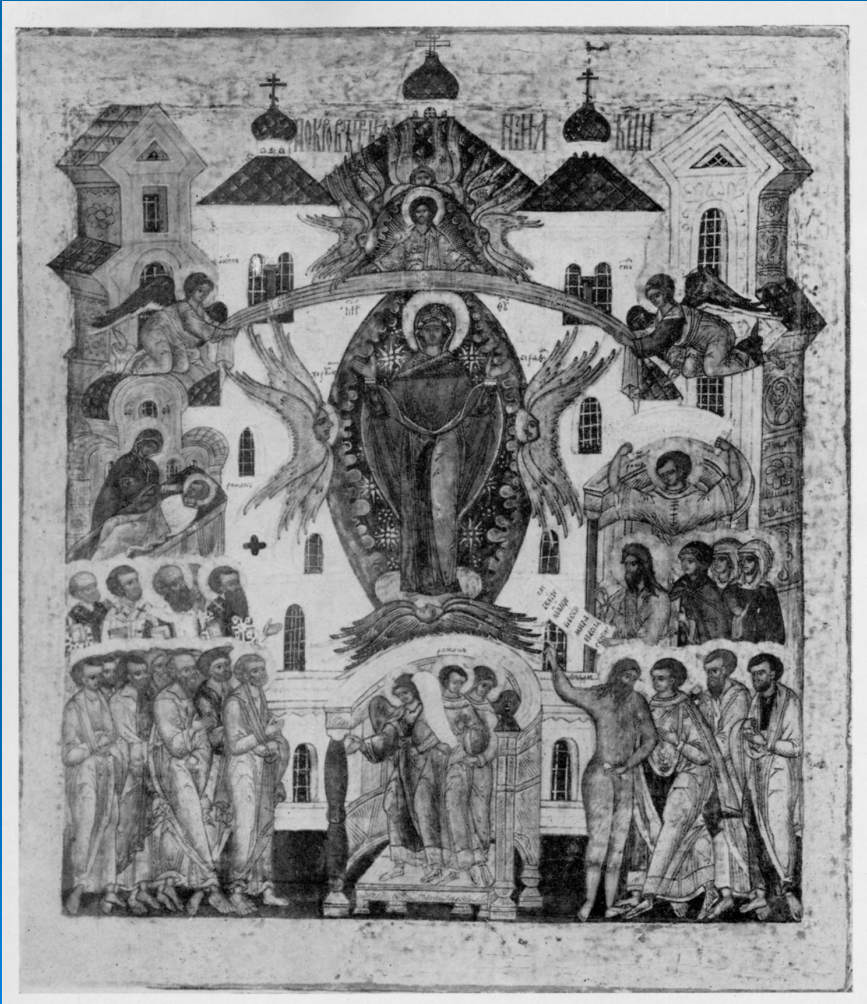


↑ Celestial Jerusalem.
Miniature from Apocalypse. 13th century.
(Credit: The Tree of Life. Roger Cook)



↑ Mary Magdalene mourning
for Jesus Christ.

SG108.4.2.2 Vesicas in Medieval Christian Art (2)



“Our Lady of the Pokrov”,
Vologda.

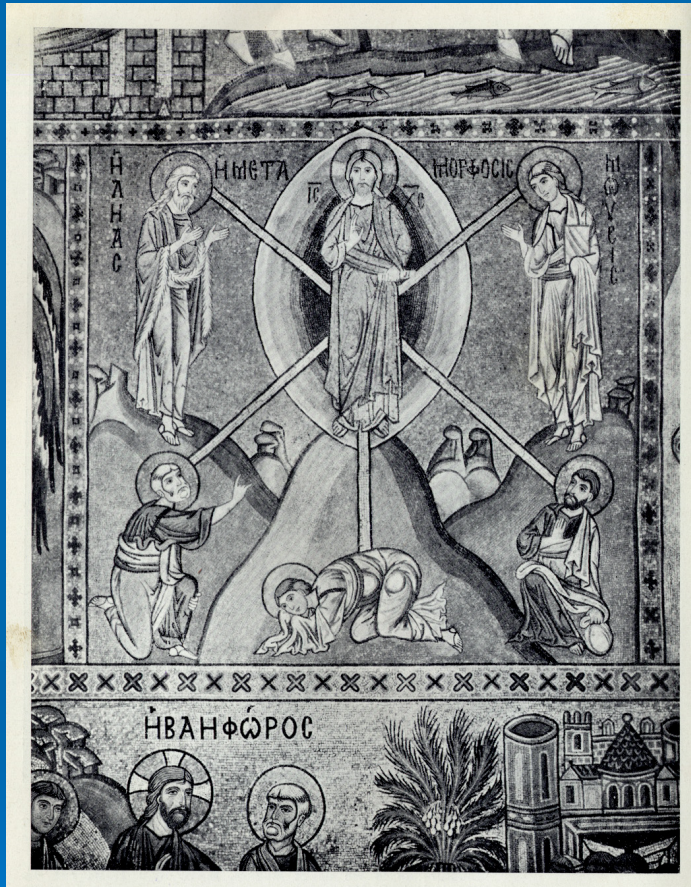
In Russian churches of the Orthodox rite, the “*pokrov*” is the veil separating (and uniting) the mundane world from the spiritual world.

This veil is materialized by the “*iconostasis*”, a screen of shining icons separating the sanctuary from the rest of the church.

Here, the *pokrov* is stretched by angels like a canopy above the Virgin Mary but is also represented by the Mandorla as a veil of Light.

Behind and through the Mandorla-Veil lie the higher worlds of Spirit Light.

SG108.4.2.3 Vesicas in Medieval Christian Art (3)



Transfiguration scene, depicting *Christ Pantocrator*.
The Vesica here is a source of transcendental Light,
emanating rays of blessings.

Mosaic. Palatine Chapel. Palermo, Sicily. 12th c.



↑ Two depictions of Christ as Teacher.
Left: Codex Bruschal
Right: Ely Cathedral.

SG108.4.2.4 Vesicas in Medieval Christian Art (4)



↑ Christ as World Savior.
Evangelium of Bamberg. 11th century.



↑ The Virgin Mary in glory

Note: these are approximate Vesicas, as geometries. Yet they convey the symbolism.

SG108.4.3.1 Vesicas in Medieval Cathedrals & Churches (1)

Chartres Cathedral (1)

The Cathedral of Our Lady of Chartres, (French = *Notre-Dame de Chartres*) is located about 80 kilometres (50 mi) southwest of Paris.

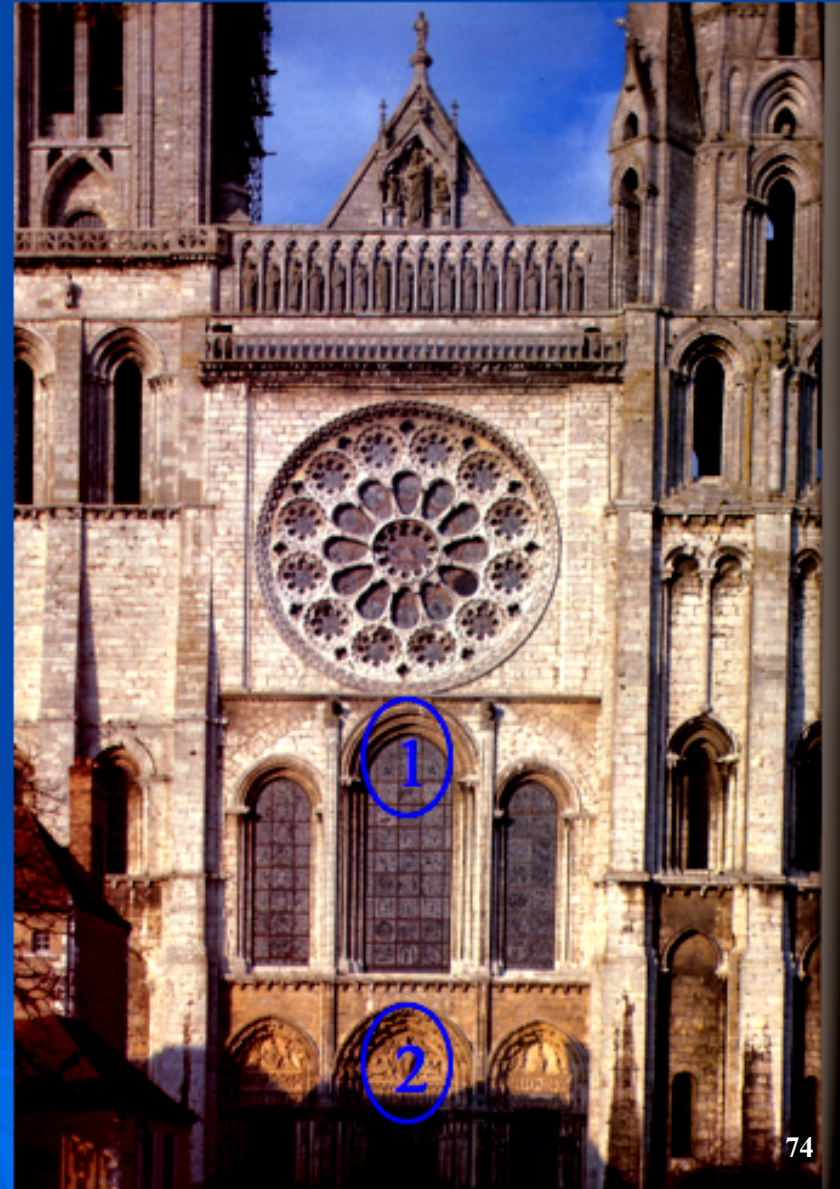
It is a UNESCO World Heritage Site since 1979 and is considered the finest example in all Europe of the Gothic style of architecture.

Chartres Cathedral is replete with the applied knowledge of Sacred Geometry, from the proportions to the plays of light at certain times of the day (or year) and to the famous 11-rings labyrinth. Remarkably, most of the original stained glass windows survived the damages of time & history.

Begun in 1195 under the driving influence of bishop Fulbert, the new cathedral was a Mystery school and a major Marian pilgrimage center.

→ Two Vesica shaped *Mandorlas* show up on the West façade (marked in blue):

1. Virgin Mary Annunciation Window.
2. Christ Main portal.



SG108.4.3.2 Vesicas in Medieval Cathedrals & Churches (2)



Christ in Glory. Main bay of Royal Portal. Chartres, France.

Chartres Cathedral (2)

← Christ is shown “*triumphant*”, holding the Holy Book on his left hand and bestowing a blessing mudra with his right hand. Under his feet, the twelve Apostles (+ Elijah & Enoch).

Around Christ is the “*Tetramorph*” or four apocalyptic animals representing the 4 evangelists, the 4 zodiacal signs and the 4 season celebrations:

Top Left: Angel-Man / Matthew / Aquarius / Winter Solstice.

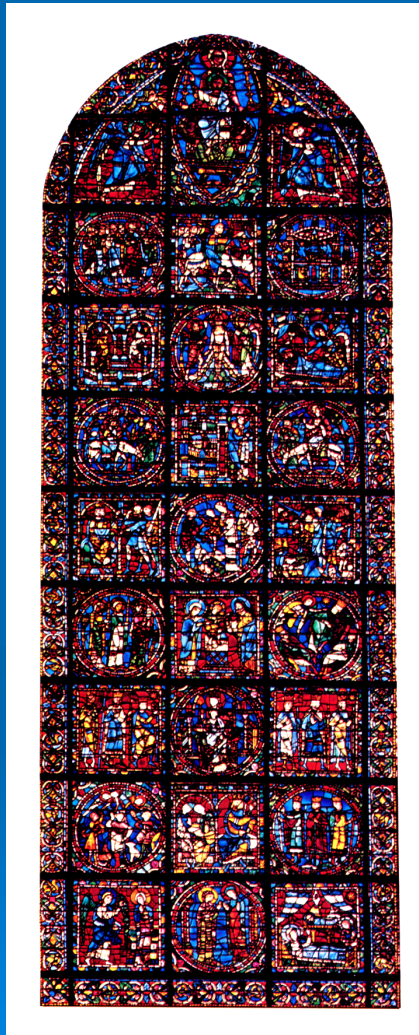
Bottom Left: Bull / Luke / Taurus / Vernal Equinox.

Top Right: Eagle / John / Scorpio / Fall Equinox.

Bottom Right: Lion / Mark / Leo / Summer Solstice.

SG108.4.3.3 Vesicas in Medieval Cathedrals & Churches (3)

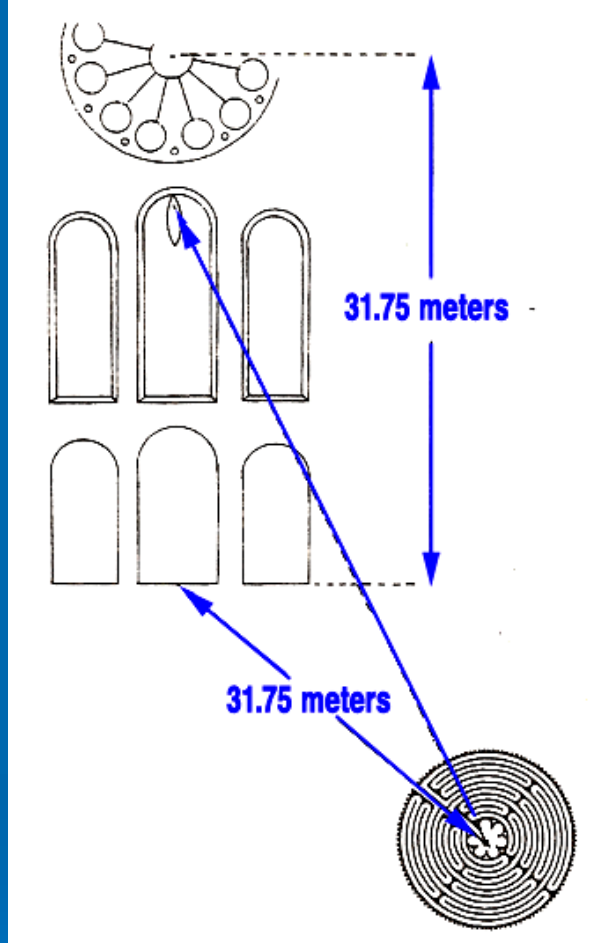
Chartres Cathedral (3)



The “*Annunciation Window*”. The Virgin Mary in the Vesica.
Chartres Cathedral.
Center lancet-shaped stained glass window. West façade.

SG108.4.3.4 Vesicas in Medieval Cathedrals & Churches (4)

Chartres Cathedral (4)



On August 22nd (corresponding to August 15th, the day of the Assumption, in the Julian calendar used in the Middle ages), a ray of sunlight goes through the Virgin Vesica (Annunciation Window) and illuminates the center of the labyrinth.



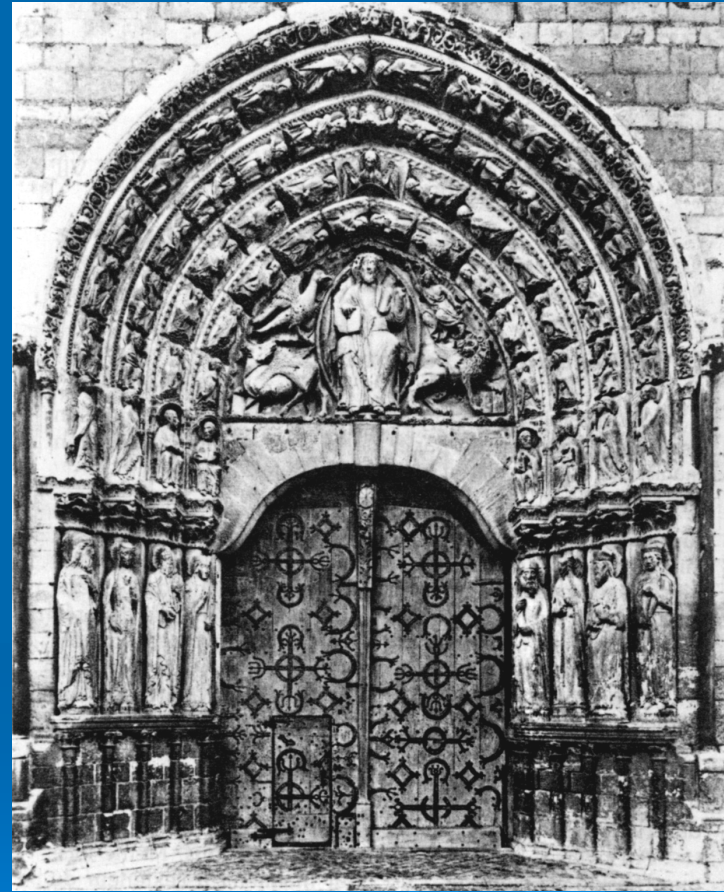
↑ *“Notre Dame de Sous-Terre”*.
Modern rendition of the ancient Black Virgin
destroyed during the Revolution.

Cathedral of Chartres. Underground crypt.

SG108.4.3.5 Vesicas in Medieval Cathedrals & Churches (5)

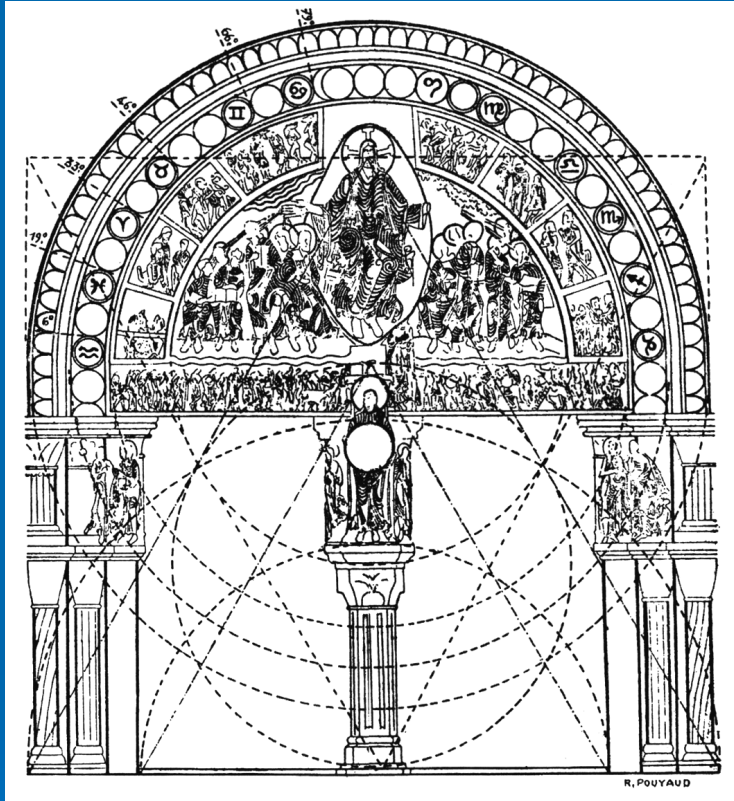


↑ “*Rimmed Mandorla*” symbolizing the light emerging from the break up of the shell of darkness. Angels are dancing around the Christ-as-Light. Cathedral of Cahors, France.



↑ Cathedral of Angers, France.

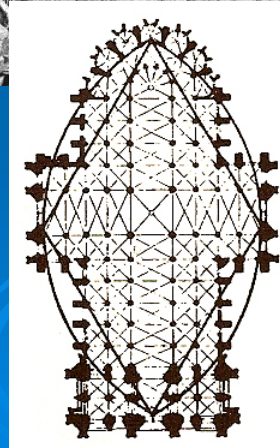
SG108.4.3.6 Vesicas in Medieval Cathedrals & Churches (6)



← ↑ Inner West portal
Cathedral of Vézelay, France.

*“In the World, it is Beauty that pleases,
in Beauty the Forms,
in the Forms the Measurements,
in the Measurements the Numbers.”*
St Augustine

Floor plan →
Cathedral of Beauvais,
France.



SG108.4.3.7 Vesicas in Medieval Cathedrals & Churches (7)

In medieval times, Catalonia achieved the status of an independent principality and developed its own language & culture. There are about 2,300 Romanesque cathedrals, monasteries, convents & churches in Catalonia.

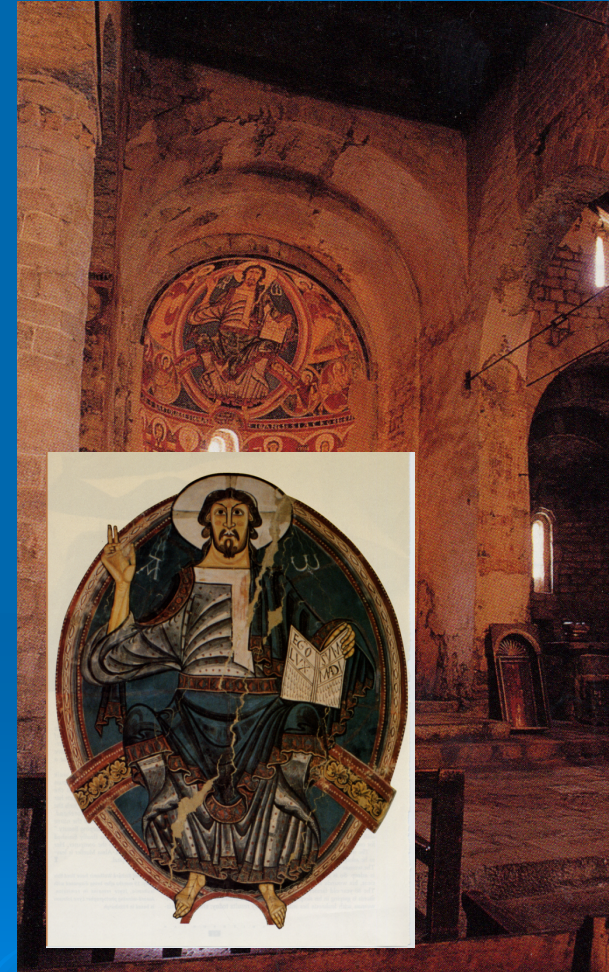


Romanesque fresco. Church of Santa Maria de Mur, Catalonia, Spain.

Catalonia, Spain



Church of Maull.
11th century.



↑ Christ in Majesty. Replica. Apse of Sant Climent de Taull, Catalonia.

SG108.4.4.1 Vesicas in Medieval Seals (1)

Ecclesiastical Institutions



College of Cluny. 1444



St Mary Chapel. 1264



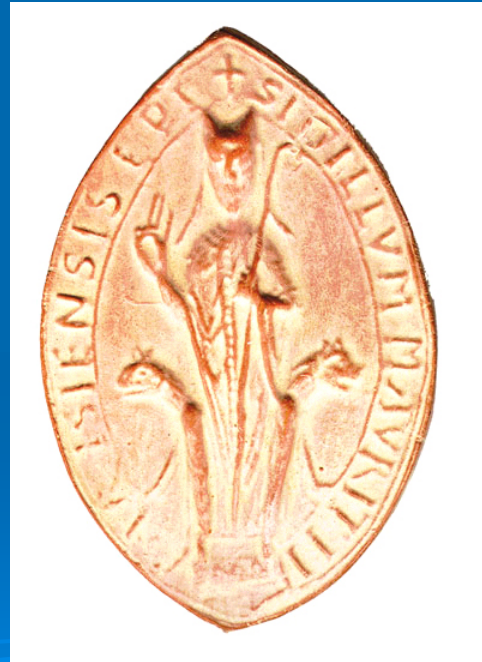
Sklara. 1281

SG108.4.4.2 Vesicas in Medieval Seals (2)



Eudes de St Germain. 1270

Bishop Seals



Maurice de Sully,
bishop of Paris. 1170.



↑ Geoffroi II,
Bishop of Le Mans.
1235

SG108.4.4.3 Vesicas in Medieval Seals (3)

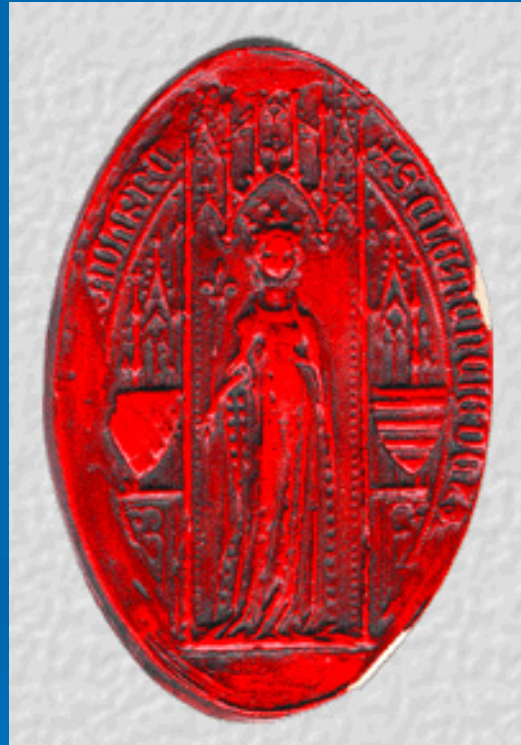
Nobility Women



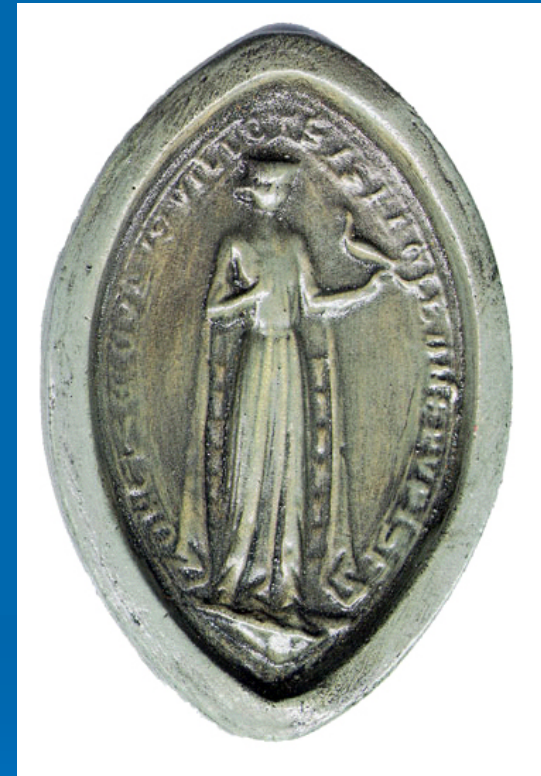
↑ Isabelle de Rosny. 1294.



← Marguerite de Provence,
wife of St Louis. 1294.

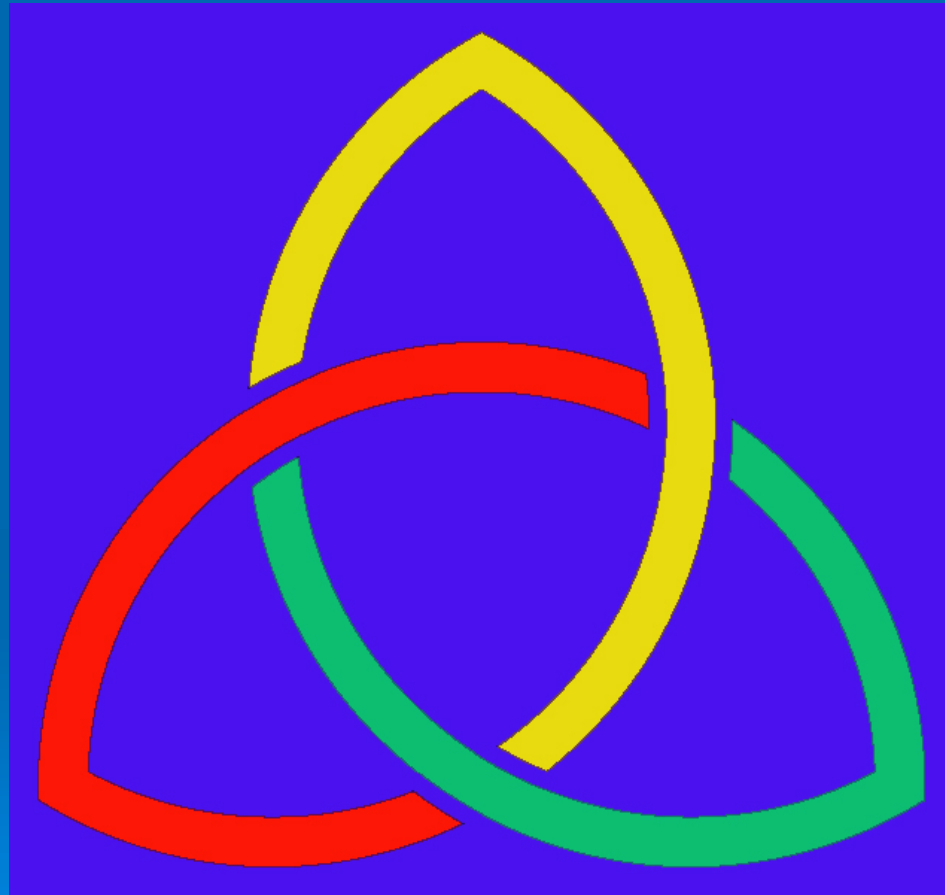


↑ Clemence of Hungary



↑ Isabelle de Rochefort. 1272.

SG108.5 Chapter 5. The Symbolism of the Vesica



SG108.5.1.1 Definitions (1) “VESICA”

Vesica (Latin = “bladder”)

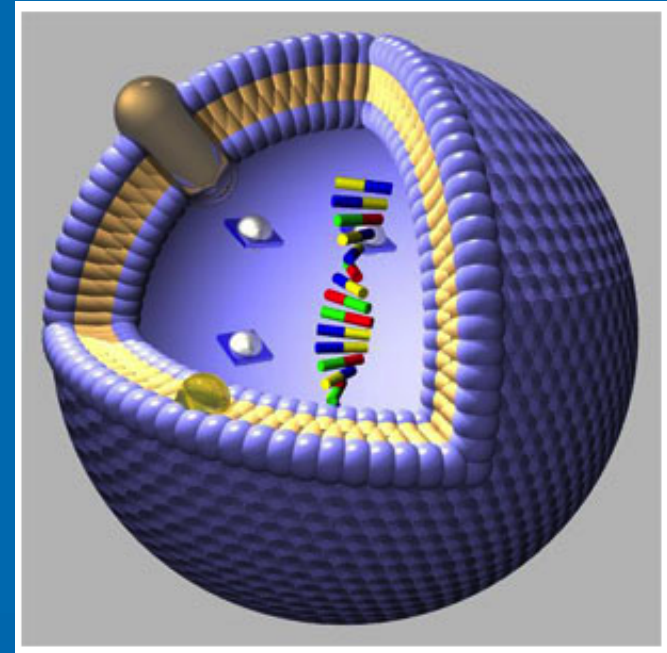
- 1. a bladder, a bag of membranous tissue. (“*Vesicle*”)
- 2. a pointed oval shape used in medieval art and sculpture. (“*Mandorla*”)

Ves-i-cle

- 1. a small sac or hollow organ in the body, especially one containing fluid
- 2. a very small blister filled with clear fluid (serum)
- 3. a bubble-shaped cavity in an igneous rock.
- 4. a cavity filled with air in a seaweed or aquatic plant.

Mandorla (Italian = “almond”)

- Nimbus or halo, in the shape of two semi-circles, surrounding holy figures, in medieval Christian art.



↑ Rendering of a vesicle, a small bubble of liquid within a cell. Vesicles store, transport, or digest cellular products and waste.

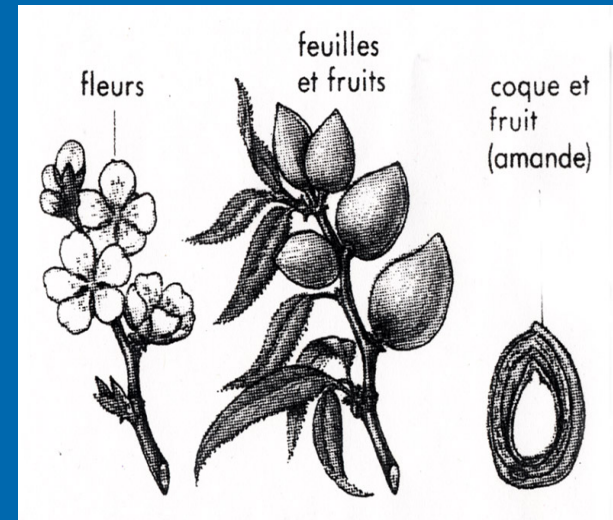
[//cellspd7spering.wikispaces.com](http://cellspd7spering.wikispaces.com)

SG108.5.1.2 Definitions (2) “ALMOND”

Almond

- 1. an edible, oval-shaped, brown-skinned nut that is widely used in cooking, particularly to flavor desserts, cakes, and cookies.
- 2. a small tree native to west Asia but widely cultivated, with pink flowers and green fruits containing a hard pit, the kernel of which is edible.

Latin name: *Prunus dulcis*



↑ Almond: flowers,
leaves and fruits.

A·myg·da·la (Greek: amygdale; Latin: amygdala = “almond”).

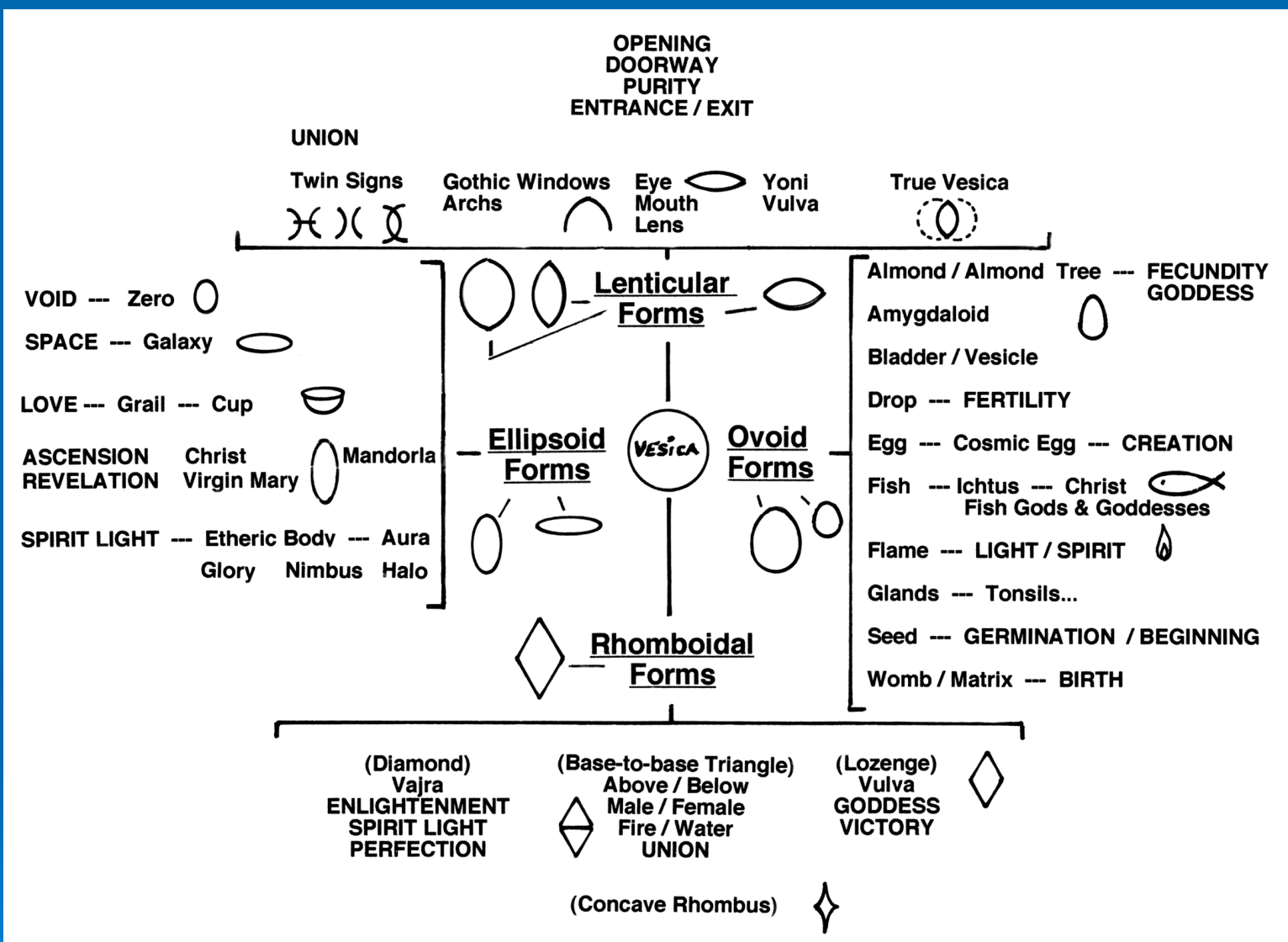
- 1. an almond-shaped mass of gray matter, one in each hemisphere of the brain... Important for visual learning and memory. (Encarta)
- 2. An almond-shaped structure, as a tonsil. (Webster '70)
- 3. Any of the mineral masses (calcite, chalcedony, quartz...) deposited in cavities in a solidified igneous rock.

CONCLUSION: The VESICA’s “linguistic tribe” is well & alive.

Vesica - Vesicle - Mandorla - Almond - Amygdal...

... all point to a *self-contained chamber* (possibly containing a treasure).

The semantics, both natural & abstract, are cross-related in various languages and lay a fertile ground for a rich geometric, symbolic and cultural flowering.



This diagram shows the 4 types of shapes that the Vesica Principle can take: lenticular, ovoid, rhomboidal, ellipsoid. Each type opens up a variety of symbolic meanings.

SG108.5.3 Vesica Symbolism - Intro

As the preceding map shows, the Vesica shape is close to many primordial shapes in nature & culture and therefore it is woven with many layers of interconnected symbolism.

We will regroup some of of these symbolic expressions under the following headings:

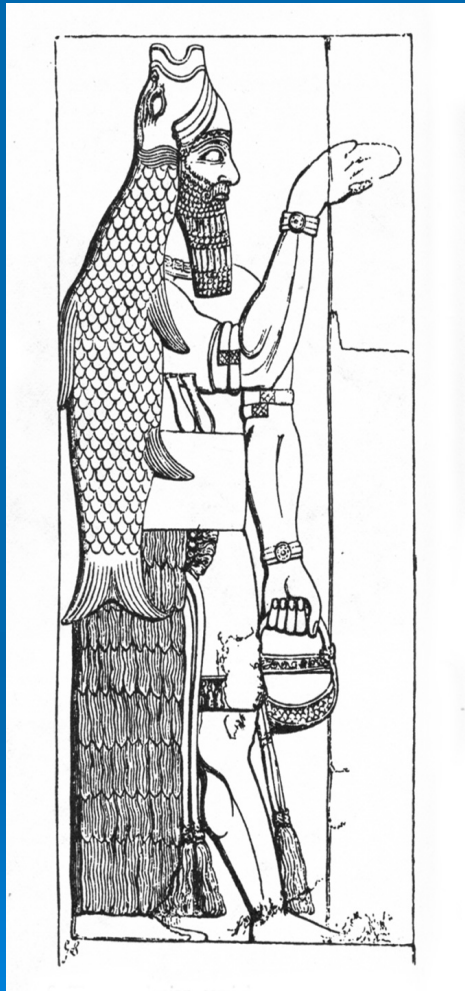
1. Symbolism of the Fish.
2. Symbolism of the Almond and the Almond Tree.
1. Symbolism of the Doorway.
2. Symbolism of the Eye.
3. Symbolism of Spirit Light.
4. Symbolism of the Mother Goddess.

All these symbols are inter-related and pervade awareness, on conscious & unconscious levels, with rich multi-dimensional meanings.



↑ Vesica Labyrinth
(Alex Champion)

SG108.5.4.1 Fish Symbolism (1) Mythologies



↑ Oannes

The fish plays a significant role in the lives of gods, goddesses & saviors in many cultures:

- A fish (*matsya*) was one of Vishnu's incarnations. It saved Manu from the Flood and gave him the Vedas or knowledge.
- The Babylonian Oannes was a fishtailed being from heaven who founded civilization on Earth.
- In Greece, Amphion was rescued by a Dolphin. Dolphins were associated with Apollo and gave Delphi its name.
- The Chinese Kuan-Yin often appears as a fish Goddess. In China, the fish represents happiness & abundance.
- Isis becomes Aputu, the great Fish of the Abyss, after she swallows the penis ("one-eyed fish") of Osiris.
- Kali, as the swallower of Shiva's penis, becomes Minakti, the fish-eyed one.
- As the "swimming ones", fish (like the "flying ones" or birds) have a degree of freedom in their element that humans don't really have on flatland.

SG108.5.4.2 Fish Symbolism (2)

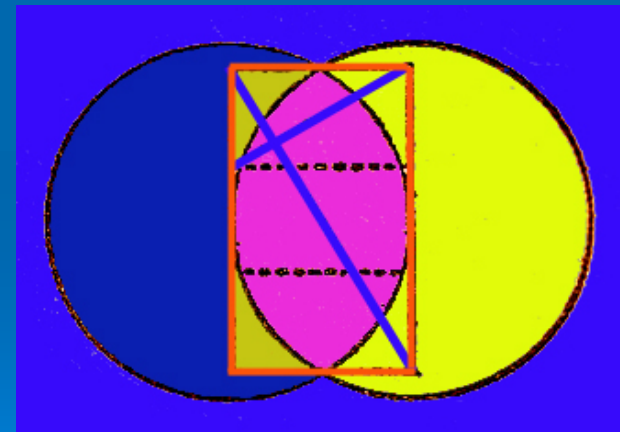
The Fish in Christianity (1)



Christianity has made wide use of the “fish” as a symbol:

- The Greek word “*ichthus*” (“fish”) became an acronym for “*Jesus Christ God’s Son Savior*”. And the fish symbol was adopted by early Christians as a secret code of recognition.
- There are many instances of fish parables and miracles in the Gospels. The most famous is the parable of the 153 fishes (John 21), a story replete with numerological & geometrical symbolism.
- The apostles were “fishers of men”. Early baptism was happening in a “*piscina*” (“fish pond”). New converts were called “*pisciculi*” (little fish). Jesus was a Pisces era avatar.
- In medieval art, the fish-shaped *Mandorla* framed the figures of Christ in Majesty and the Virgin Mary in Glory.
- A medieval hymn calls Jesus “*the little fish in the Virgin’s fountain*”. The Christ child is also often shown inside a mandorla, superimposed on Mary’s womb.
- Mary herself can be compared with Aphrodite Marina who brought forth all the fish. Marina’s blue robe and pearl necklace, like Mary’s, are symbols of the Ocean.

→ “Ichthus”



↑ The Vesica within the $\sqrt{3}$ rectangle.
The diagonals of the rectangles
point to the fish’s “eye”.

SG108.5.4.3 Fish Symbolism (3) The Fish in Christianity (2)



↑ St Zenon of Verona wearing a mitre.

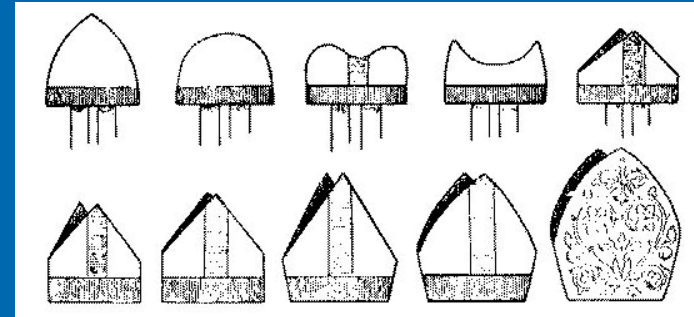


↑ The “mitre” and its fish symbolism, in the age of Piscis.



The *mitre*, sometimes also spelled *miter* (Greek *μίτρα* = ‘headband’), is a type of headgear now known as the traditional, ceremonial head-dress of the pope, bishops and certain abbots in the Roman Catholic Church, the Anglican Communion and the Lutheran Church.

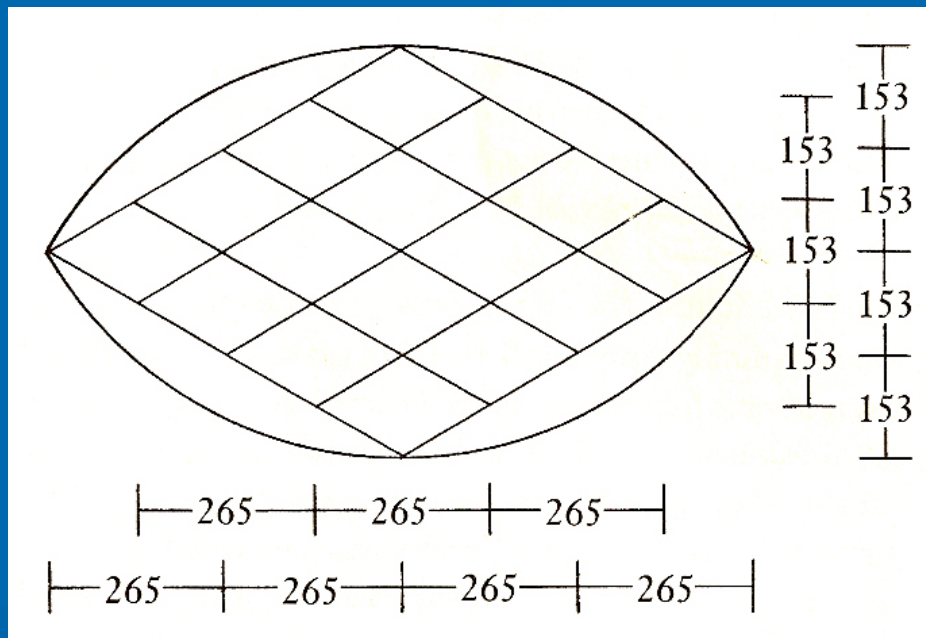
One of the Latin titles still used by the pope of Rome is *Piscator*, “the Fisherman.”



↑ The evolution of the *mitre*: Top left is in the 11th century - a true half Vesica shape. Then it degraded until the current shape - back to Vesica shape.

← Pope Benedict XVI replaced, on the Papal Arms, the papal tiara with a bishop’s mitre.

SG108.5.4.4 Fish Symbolism (4) The Miraculous 153 Fish



Archimedes (287-212 BCE) gives, in his treatise *On the Measurement of the Circle*, the ratio $265 / 153$ as the “*measure of the fish*” or ratio of the long axis of the Vesica Piscis to its width, i. e. $\sqrt{3}$.

$$265 / 153 = \sqrt{3} = 1.732$$

The story in John’s Gospel, of the Miraculous Catch of the 153 fish is obviously a remake of this older allegory connecting “fish” and the number “153”.

The parable of the Miraculous Fish was in fact a geometrical educative story conveying knowledge of Sacred Geometry and having cosmological import.

↑ The ratio $265 / 153$ corresponds to the height and width of the large rhombus as well as each small rhombus. It is an accurate approximation of $\sqrt{3}$, the long axis of the Vesica.

265 / 153 differs from the real value of $\sqrt{3}$ by about one part in 10,000.

(David Fideler. *Jesus Christ, Sun of God*. Quest Books. 1993)

SG108.5.5.1 Almond Symbolism (1)

Almond Tree

The Almond tree is one of the first trees to flower in spring and thus is a sign & symbol of the *Rebirth of Nature* and fecundity / fertility for the land & the people.

- A girl who falls asleep under an almond tree and dreams of her lover will wake up pregnant.
- The Greeks compared the milk of almond as creative force to the seminal ejaculation of Zeus.
- Attis (Greek God of vegetation) was born from a virgin who conceived him from an almond.
- In the spring, seeing many flowers on the almond trees indicates an upcoming earth fertility season. Seeing many leaves announces an unproductive season.
- Medieval esotericism cloaked Mary's virginity under the term "*mystic almond*".

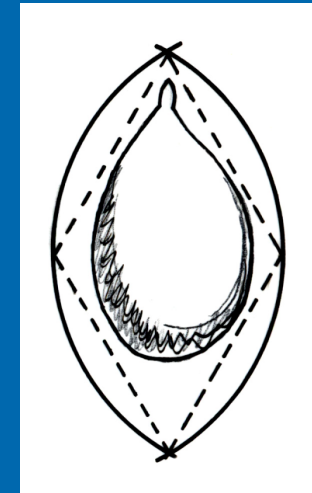
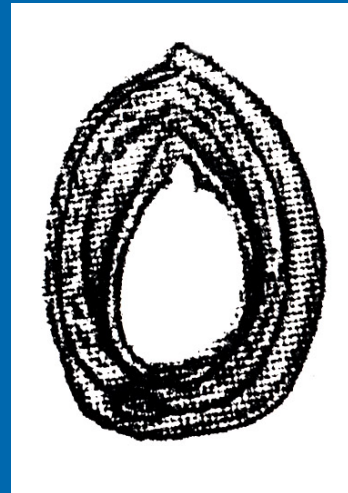


Almond Milk: Unlike animal milk, almond milk contains no cholesterol or lactose while providing an excellent nutritional value.
Historically, almond milk was also called "*amygdalate*".
It was consumed over a region stretching from the Iberian Peninsula to East Asia.

SG108.5.5.2 Almond Symbolism (2) Inner Mystery

Because of its protective coverings (green soft husk + hard shell), the Almond symbolizes:

- The Inner Treasure
- The Substance hidden within its accidents
- Reality concealed by outward appearance
- The embryo within the womb
- The “Kernel of Truth” enclosed in the body
- The secret Light of inner Illumination
- Spirituality masked by religious dogma



Because of its shapes (Vesica + base-to-base triangles + seed), the Almond speaks of:

- Sacred Marriage between seeming opposites: Heaven/Earth, Matter / Spirit, Water / Fire...
- Union transcending duality
- Ascension



SG108.5.5.3 Almond Symbolism (3) Vielliebchen Game

As I was researching this SG108 module, a long-forgotten but sweet memory sprung into my mind.

In my childhood, the custom was, in my family, to play the game of "*Philippine*" when eating almonds. As we would use a nutcracker to crack almonds open from their shells, once in a while, we would find twin almond seed, a double kernel. The game was then to offer the other twin almond to your favorite family member. The winner was the one who is the first, the next morning, to say to his/her partner: "*Good Morning, Philippine!*": they would then receive a gift or forfeit.

(Note: "*Philippine*" is a French adaptation from the German "*Vielliebchen*" = Sweetheart, Beloved).

And, sure enough, searching "twin almonds" brought up the following article: "CHARACTERIZATION OF TWIN EMBRYOS IN ALMOND". The article's abstract explains:

"Twin seeds (multiple embryos within the same seedcoat) occur spontaneously in certain almond cultivars including 'Nonpareil' and 'Mission'. The occurrence of these multiple embryos varies greatly and is strongly influenced by environmental conditions. Seedlings from the same twin seed are frequently viable, though often, one of the seedlings shows weak growth and develops poorly. These dwarf seedlings are generally thought to be haploid."

(ISHS Acta Horticulturae 591: III International Symposium on Pistachios and Almonds. P. Martínez-Gómez, S. Arulsekar, T.M. Gradziel)

Could it be that the old folkloric custom of offering
a twin seed almond to your sweetheart
is a ritual to wish them increased fertility or fecundity,
and to increase the love communion between the two of you?

SG108.5.6.1 Doorway Symbolism (1) Stars



↑ The Greek Goddesses of Night & Day
attending to the Milky Way.
Poeticon Astronomicon. 1492.

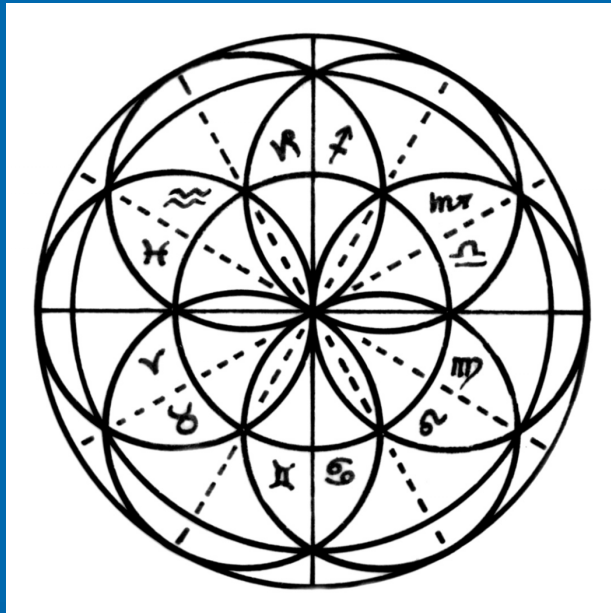
Birthing the stars.

Due to its elliptical shape of an “*opening*” and also its construction as the common area between two primordial circles/spheres, the Vesica is the powerful symbol of a transition between two realms of life.

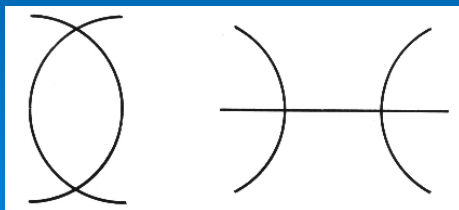
It functions as a Doorway, a portal, an entrance/exit, an interface, a “*stargate*” between the usual 3D mundane reality and higher-dimensional, meta-physical realities.

The symbolism of the Doorway is rich & multiple. Doors have a revelatory role in creating an impression of what lies beyond. They function as a portent of change & transformation. Open doors create new possibilities of expansion. They birth new beginnings. They connect and unite. They invite you in... and eventually they disappear into infinity.

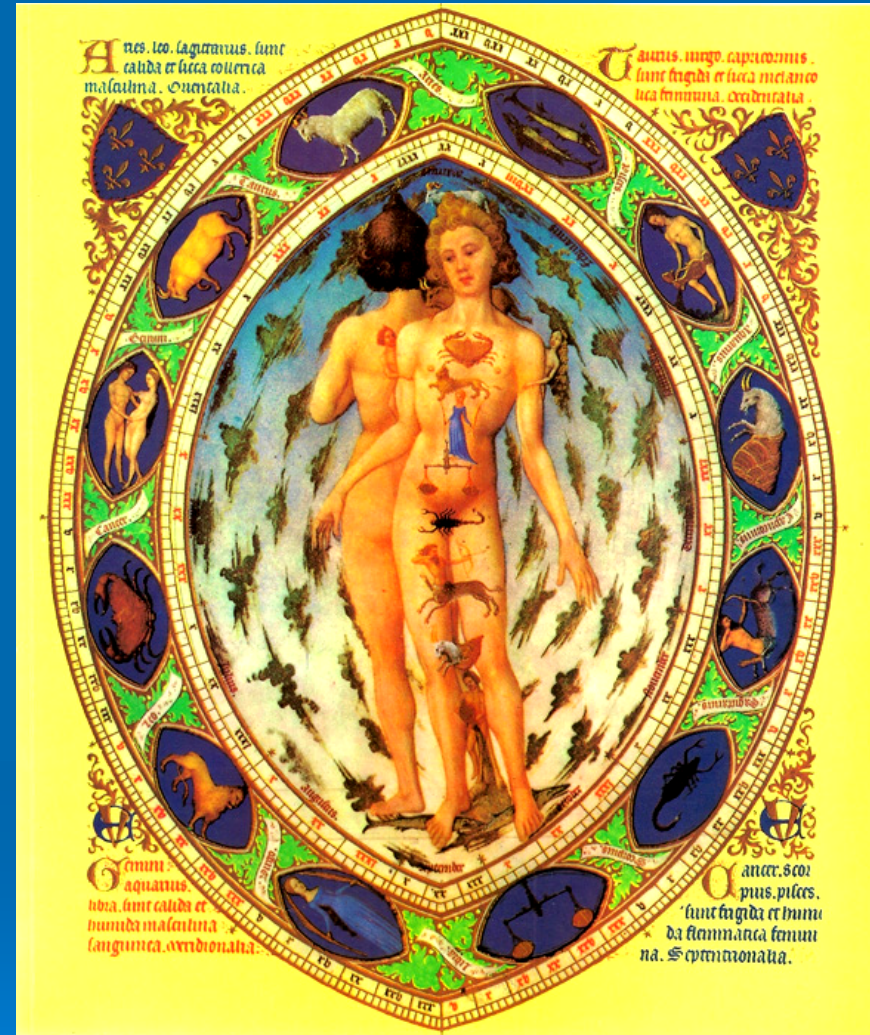
SG108.5.6.2 Doorway Symbolism (2) Stars



↑ The Flower of Life “*Genesis Pattern*” used as a Zodiac Wheel.



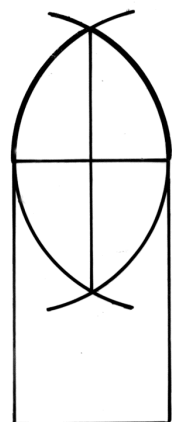
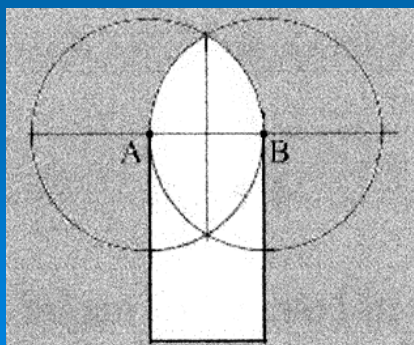
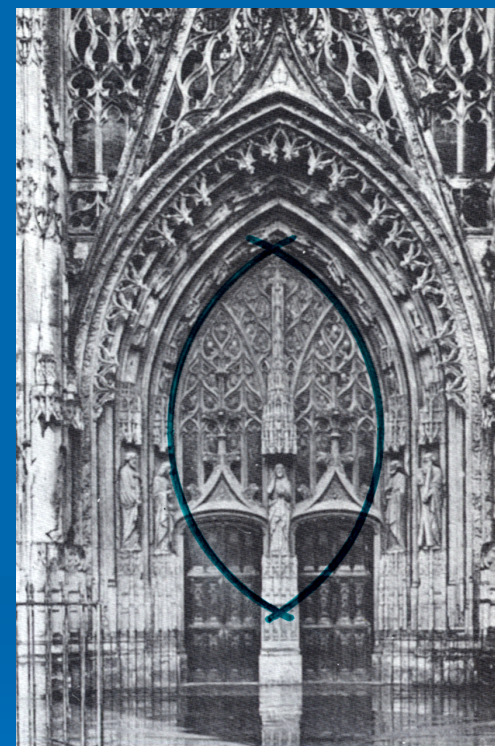
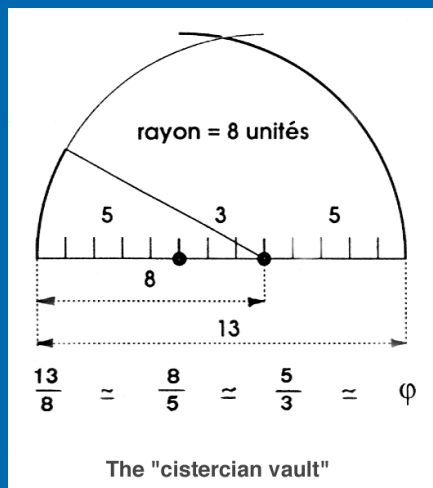
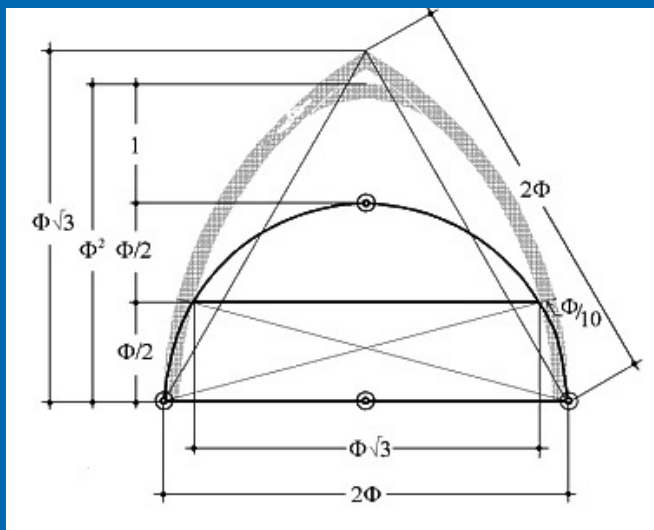
↑ The Vesica origin of the astrological sign for Pisces.



↑ “*Les Tres Riches Heures du Duc de Berry*”.
France, 15th century.

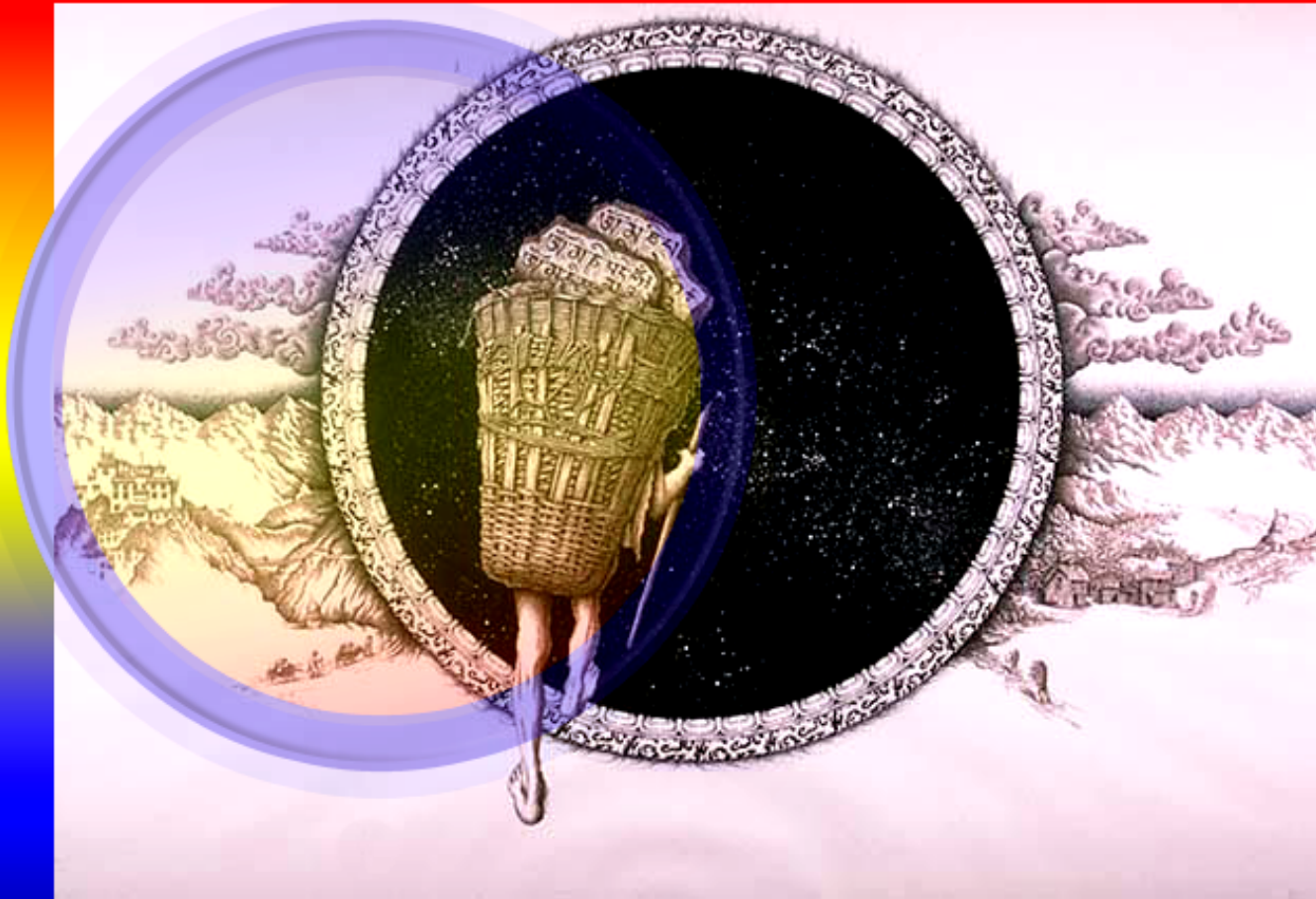
(The main Vesica is larger than a Golden Vesica, but the outer Vesica shapes are true Vesicas.)

SG108.5.6.3 Doorway Symbolism (3) Architecture



Sacred Geometry and
Vesicas in the
Cistercian vault (above)
and the gothic vault
(left)

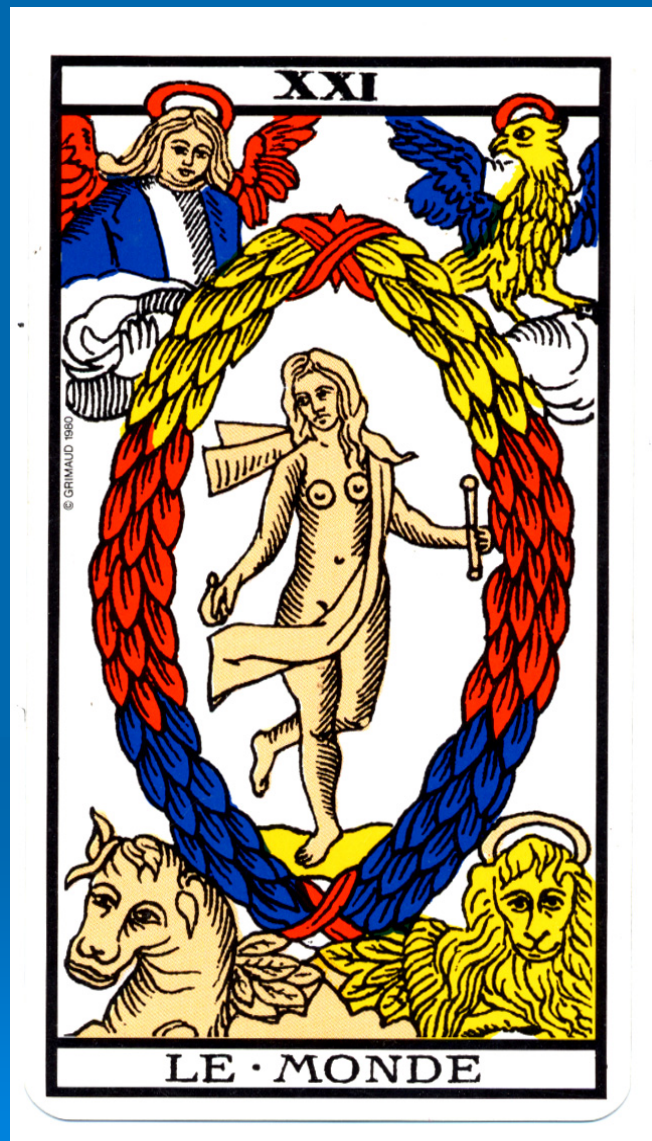
↑ Church of the Trinity.
Vendôme, France.



SG108.5.6.4 Doorway Symbolism (4) The Void

Entering the Void

SG108.5.6.5 Doorway Symbolism (5) Tarot



In the Tarot tradition, the “*World*” or “*Universe*” (major arcana #21) is the last stage of the initiatic cycle and the culmination of the Quest. It represents the *Anima Mundi*, the Mother Goddess poised at the threshold point of the Mystic Center.

- The wreath (symbolizing ultimate victory) is the Ring of Return, the Vesica Womb and the Cosmic Egg of Creation.
- The Four Evangelists stand for the zodiacal signs of Solstices & Equinoxes as well as the four aspects of the Self.

(Tarot de Marseille)

SG108.5.6.6 Doorway Symbolism (6) Dunhuang

Dunhuang, an oasis in the Gobi desert, grew up, under the Tang dynasty (618-906), to become a major stop-over on the Silk Road between India & China and also a thriving Buddhist center. 500 caves featuring 45,000 sq feet of Buddhist paintings are known as the “*Caves of the Thousand Buddhas*”.

Notice the stages of the Vesica mandorla opening into doorways.



↑ Cave 285

← Cave 249

SG108.5.7.1 Eye Symbolism (1) The Almond-shaped Eye

*The eye is first of all the recipient of the physical world and of its light. .
As the “third eye”, it is also the organ for the perception of subtle energies.
And, as the “eye of the heart”, it is the seat of spiritual enlightenment.*

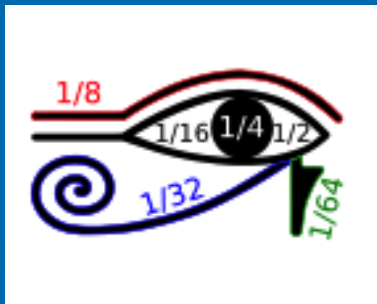


SG108.5.7.2 Eye Symbolism (2) Eye of Horus

The *Eye of Horus* (previously the Eye of the Moon and afterwards The Eye of Ra) or "*Udjat*" is an ancient Vesica-shaped Egyptian symbol of protection and royal power from deities, in this case from Horus or Ra. The symbol is seen on images of Horus' mother, Isis, and on other deities associated with her. *(Wikipedia)*



The mathematical symbolism of the Eye of Horus



1/2 represents SMELL, symbolized by the right side of the eye, pointing like an arrow to the nose.

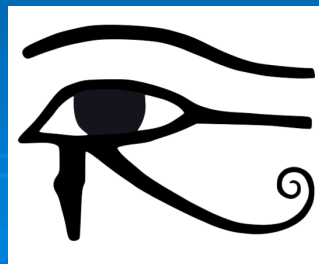
1/4 represents SIGHT or the sensation of light, symbolized by the pupil. The pyramid text says: "*Perfect is the Eye of Horus. I have delivered the Eye of Horus, the shining one, the ornament of the Eye of Ra, the Father of the Gods.*"

1/8 represents THOUGHT, symbolized by the eyebrow.

1/16 represents HEARING, symbolized by the left side of the eye in the form of an arrow pointing towards the ear.

1/32 represents TASTE, symbolized by the sprouting of grain from the planted stalk - a curved tail.

1/64 represents TOUCH, symbolized by a leg touching the ground, as a strong plant growing into the surface of the earth. 1/64 is also the lost penis of Osiris, in the beautiful story of Isis & Osiris.



← The Left Eye of Horus symbolizes the Feminine Wisdom, the Initiation in the Mystery School.

SG108.5.8.1 Spirit Light
Symbolism (1) Enlightenment 1



“Dainichi Nyorai”.
A statue of Maha-Vairocana.
Kyoto, Toji Shrine. 8th century.

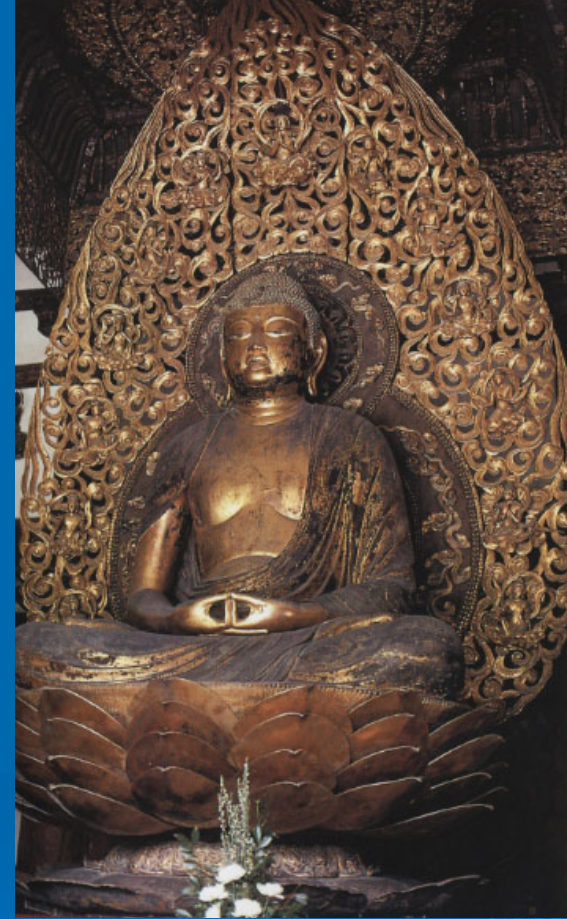


In Japanese mythology,
the Sun Goddess *Amaterasu*
emerges from her cave
in an effulgence of Light.

SG108.5.8.2
Spirit Light
(2)
Enlightenment
(2)



↑ White Tara

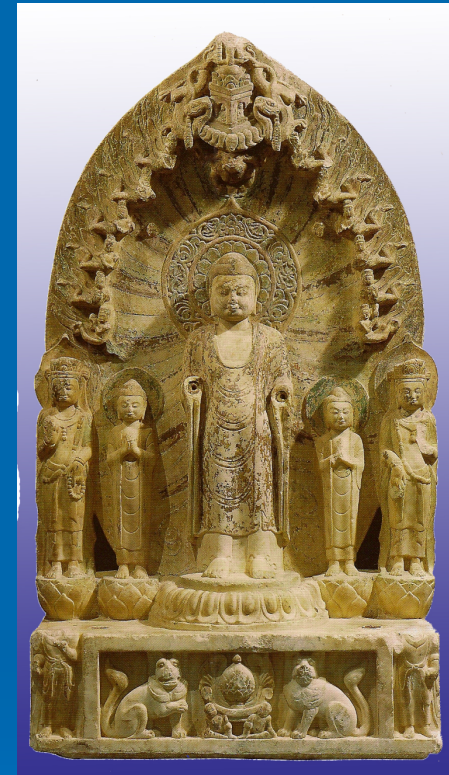


← Bronze of Suryaprabha. 7th c. Golden Hall.
Yakushiji Temple. Nara, Japan.

SG108.5.8.3 Spirit Light Symbolism (3) Buddhist Mandorlas

According to legend, the Buddha bore the 32 marks of a great being, including wheels on the soles of his feet, an *urna* (resembling a dot between his eyebrows), an *ushnisha*, (fleshy protuberance atop his head) and elongated ears.

Typically, one finds a *nimbus* framing the Buddha's head and a *mandorla*, or Vesica halo of enlightenment, surrounding his body.



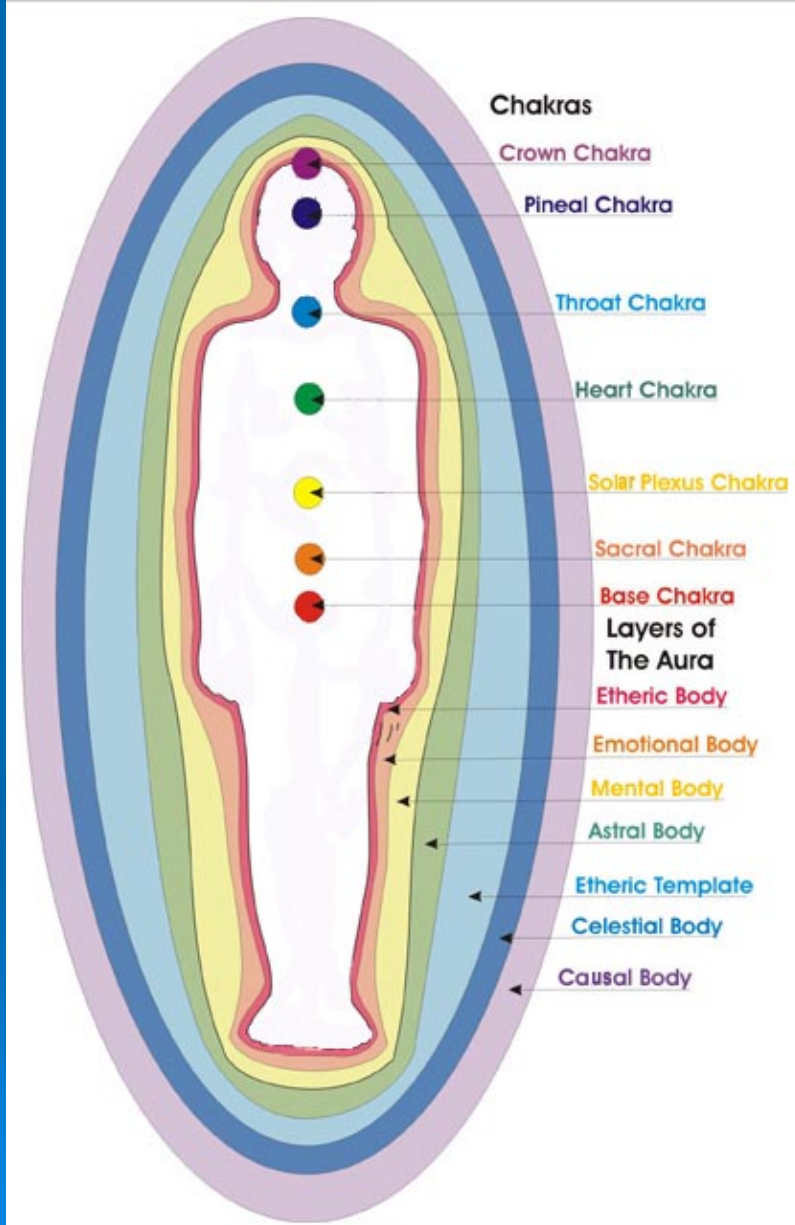
↑ Buddhas.

Left: Wei Dynasty. 6th c.

Right: Qi Dynasty.

← Buddha & Prabhutaratna. Wei Dynasty. 4th c.

SG108.5.8.4 Spirit Light Symbolism (4) Aura



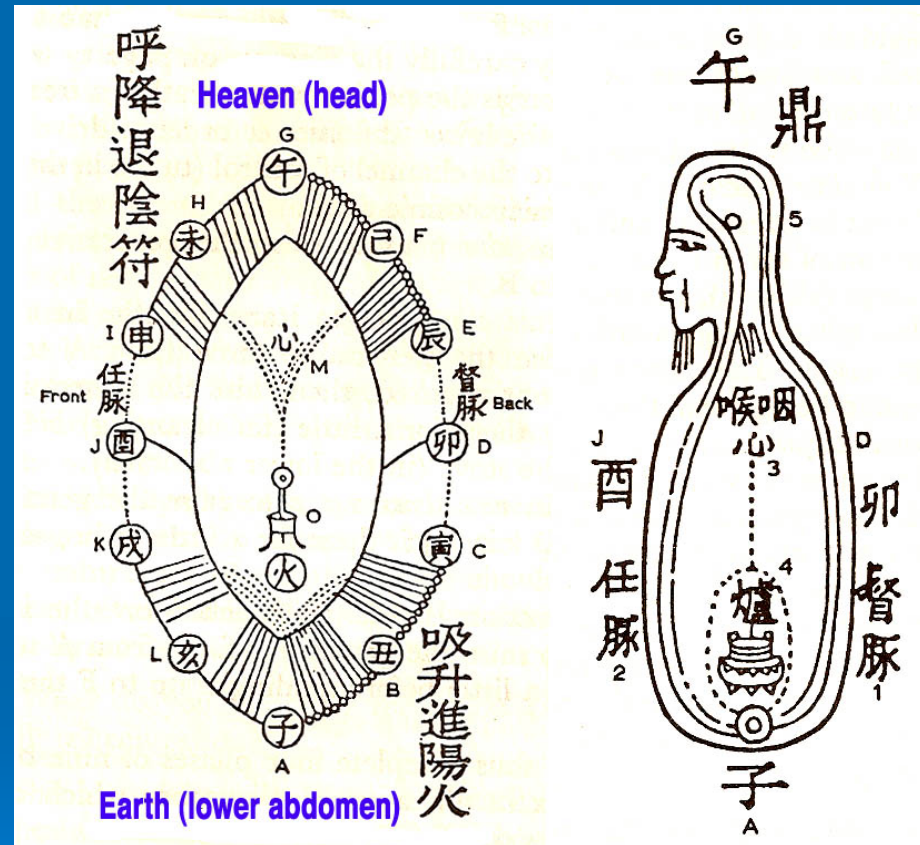
↑ www.clarkshawonline.com

← www.gaia-now.com

SG108.5.8.5 Spirit Light Symbolism (5) Sacred Union (1)

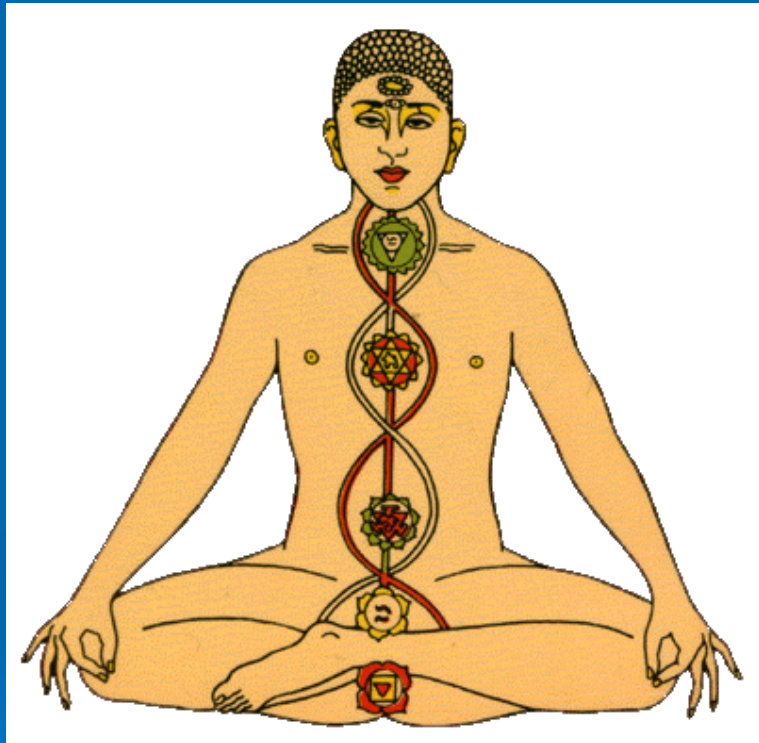


“*Heruka Chakrasamvara*”.
Buddha in male aspect with consort.
Tibetan Kundalini Yoga.
(Painting by Andy Weber).

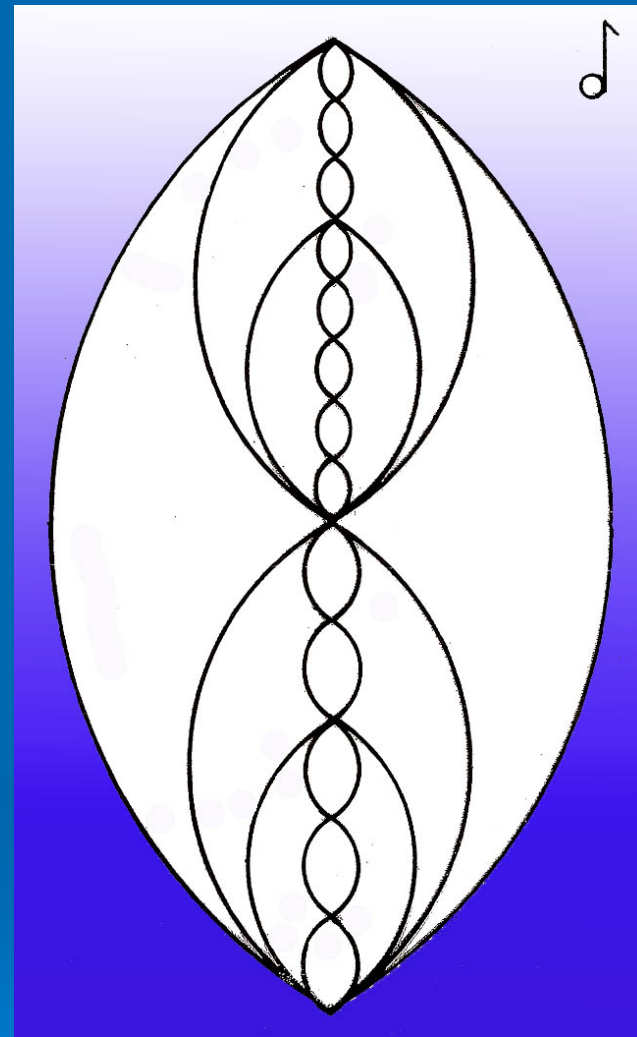


↑ The “*Microcosmic Orbit*” circulation of the life force through the Sun and Moon channels.
Chinese Taoist Kundalini Yoga.
Lu Kuan Yü, Taoist Yoga. 1970.

SG108.5.8.6 Spirit Light Symbolism (6) Sacred Union (2)



Indian Kundalini Yoga.
Center channel (Sushumna) and
side channels of Sun (Pingala)
and Moon (Ida).
(Note the Vesica shapes)

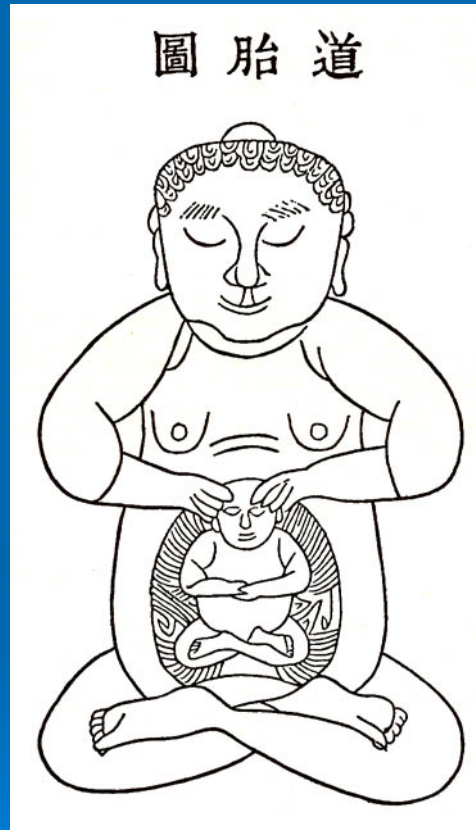
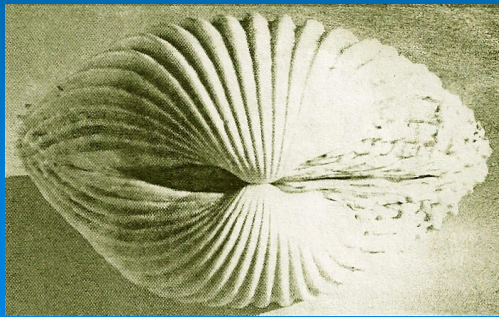


↑ It's all Music
Attuning the Sacred Geometry harmonics
of frequency resonance between chakras.
The body-mind-spirit is a monochord.

SG108.5.9.1 Mother Goddess Symbolism (1) Birth

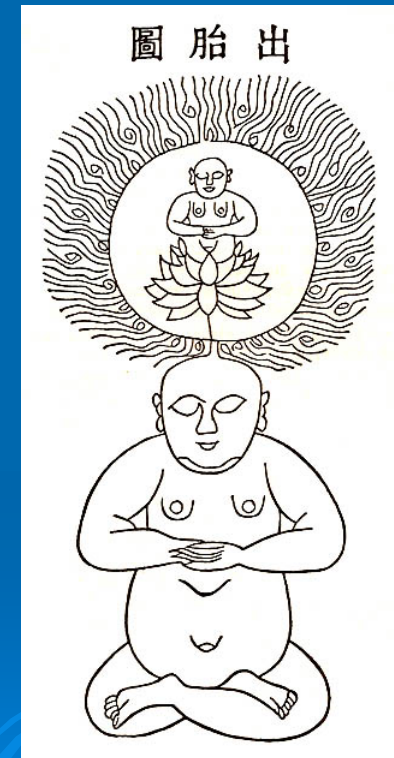


↑ The Birth of Venus.
Sandro Botticelli. 1485.



Being pregnant
with the body of light within.
(Lu Kuan Yü. Taoist Yoga. 1970)

Being one's own
Mother



↑ Spirit Birth

SG108.5.9.2 Mother Goddess Symbolism (2) Womb



Devotion - Mari Magdalene
(Note the Vesica image as a womb)
www.mysticartmedicine.com

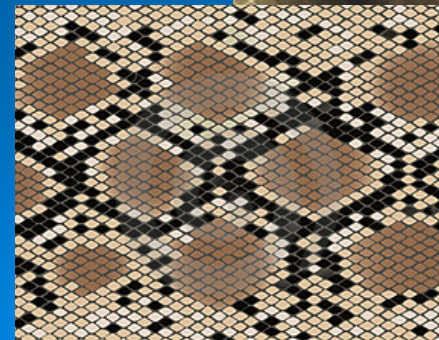
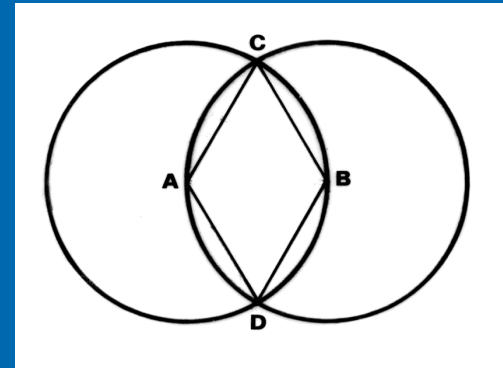


[//www.ishalerner.com](http://www.ishalerner.com)

SG108.5.9.3 Mother Goddess Symbolism (3) Lozenge

Lozenges are female symbols. They represent the yoni-vulva and the womb of life. An extended meaning is that of “Door to the Underworld” and to the chthonian powers.

- *The lozenge, as two base-to-base triangles, represent the union of male / female, heaven / earth...*
- *In Guatemala, women wear lozenge-patterned dresses as a symbol of womanhood.*
- *In Mexico, the lozenge is associated with the Moon, the underworld Goddess Chalchiuhtlicue, and the jaguar.*
- *A lozenge shape in coffee grounds means success in love.*
- *In China, it is one of the 8 most auspicious signs.*
- *For the Bambara, a lozenge-shaped oval with a dot represents a girl’s sexual organs.*



The Yoni-Matrix of Creation

- Yoni = Sanskrit for vulva and symbol of the female power of creation in the Hindu tradition.
- Often represented with the “Lingam” (coming out of it) to mean the complementariness of the two primordial male-female principles or “Shiva-Shakti”.
- By extension, “*jagad yoni*” means the “womb of the world” as the archetypal portal to manifestation.
- In the Hindu mythology, the paradise island *Jambu* was “*shaped like the Yoni*” = a cosmic clitoris, focus of the Goddess’s creative spirit. The Yoni passed into western symbolism as the Mandorla and the Vesica Piscis.
- In Irish churches, the *Sheila-na-gig* figures display the Sacred Yoni.

(B. Walker. *The Woman’s Dictionary of Symbols*)



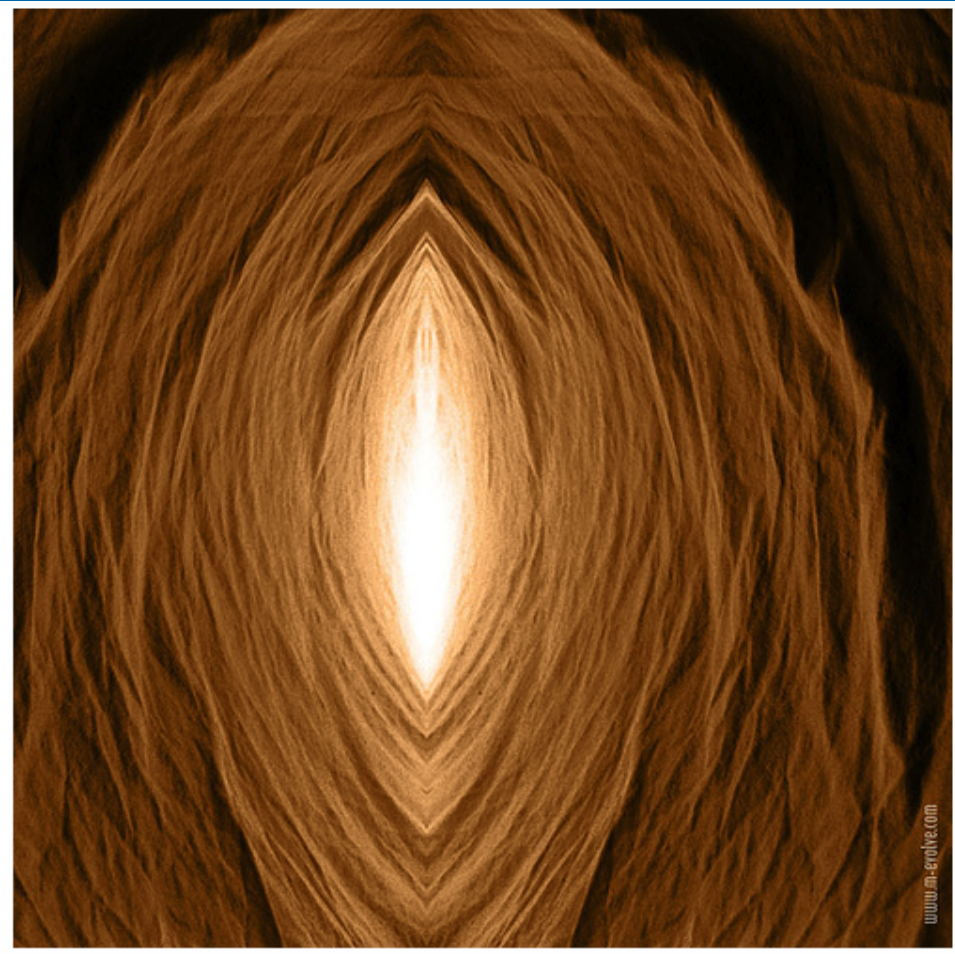
← The pointed oval is a universal symbol of the Divine Feminine, and the Vesica Piscis is the vulva of the Goddess, surrounded by the crescents of the waxing and waning moon.

SG108.5.9.4 Mother Goddess Symbolism (4) Yoni (1)



“Vajrayogini” - Buddha in female aspect embodying the unity of bliss & emptiness.
(Painting by Andy Weber)

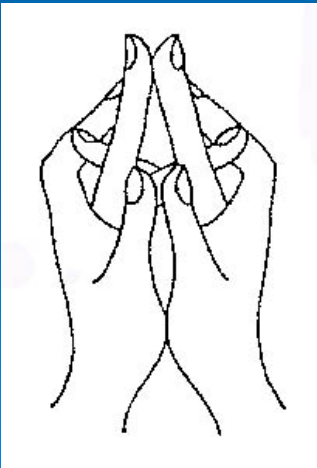
SG108.5.9.5 Mother Goddess Symbolism (5) Yoni (2)



↑ “Vesica Piscis” by m-evolve
www.m-evolve.com



↑ Coco-de-mer,
a vesica/yni-
shaped seed



← Yoni Mudra

SG108.5.9.6 Mother Goddess Symbolism (6) Egg of Creation (1)

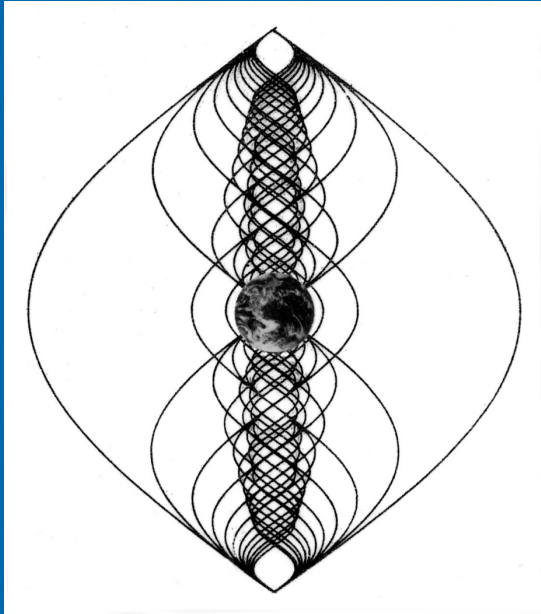


Transfiguration scene.
*"His face shone as the sun
and His raiment was white as light".*
12th c. Hermitage Museum. St Petersburg.



↑ Brahmanda, the Cosmic Egg.
Benares, Narmada river stone.

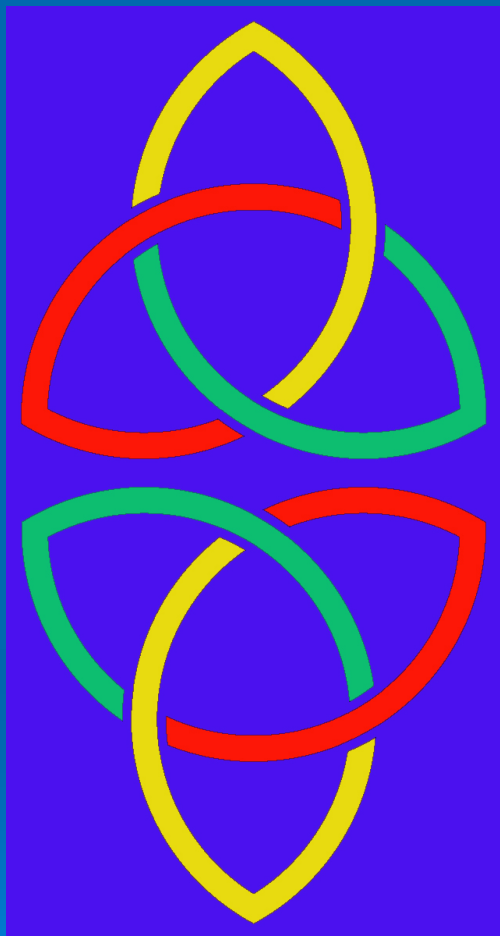
SG108.5.9.7 Mother Goddess Symbolism (7) Egg of Creation (2)



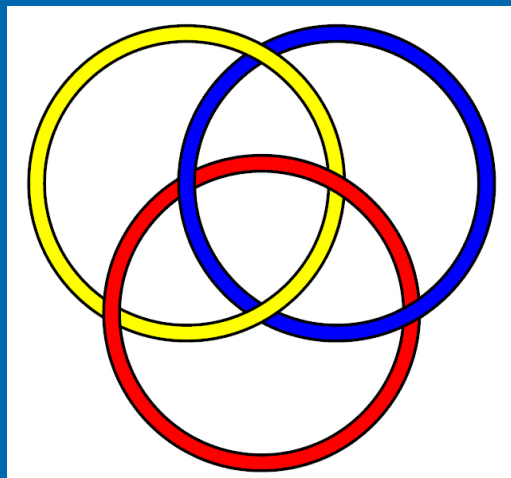
StarWheel #108
“Creation Ovum”,
based on musical overtones.



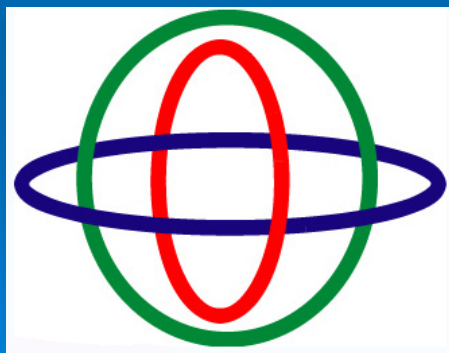
SG108.5.9.8 Mother Goddess Symbolism (8) Triquetra



↑ Two triquetrae
base-to-base



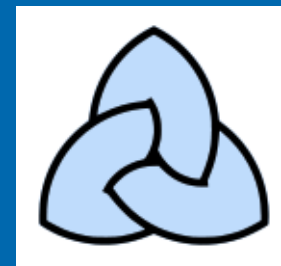
↑ In mathematics,
a Triquetra is called
Borromean Rings.



↑ Borromean Rings
in ellipses

Triquetra (Latin *tri* = 3 + *quetrus* = cornered) originally simply meant "triangle".

Nowadays, it refers exclusively to a shape formed of 3 Vesicae piscis. It is a symbol of trinity or 3-foldedness. It is a Tri-Vesica.



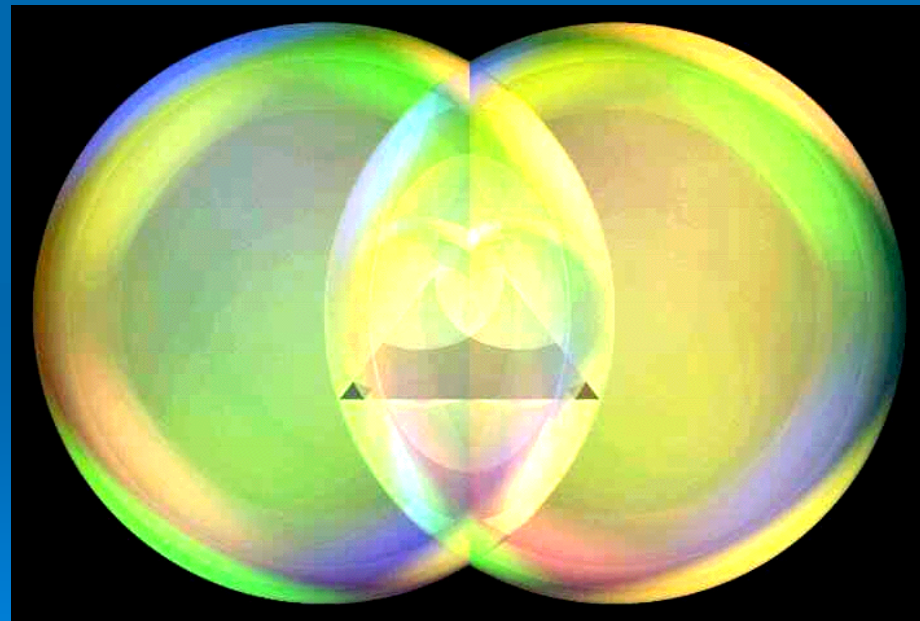
↑ Variations on the theme

SG108.6 Chapter 6. Vesicas in Today's World



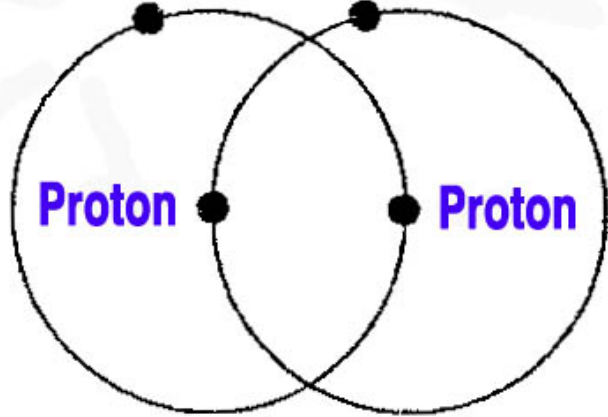
SG108.6.1 Contemporary Vesicas

When one starts looking for the Vesica shape,
it appears everywhere...
as if imbedded in the lens of our stereoscopic vision...

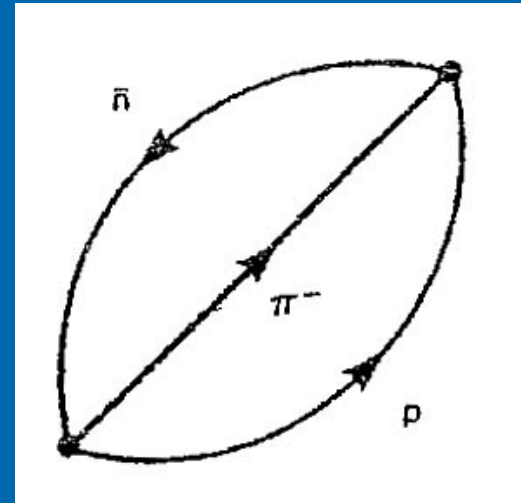


Picture by Charles R. Henry.
<http://www.people.vcu.edu/~chenry/>

Electron Wave Electron Wave

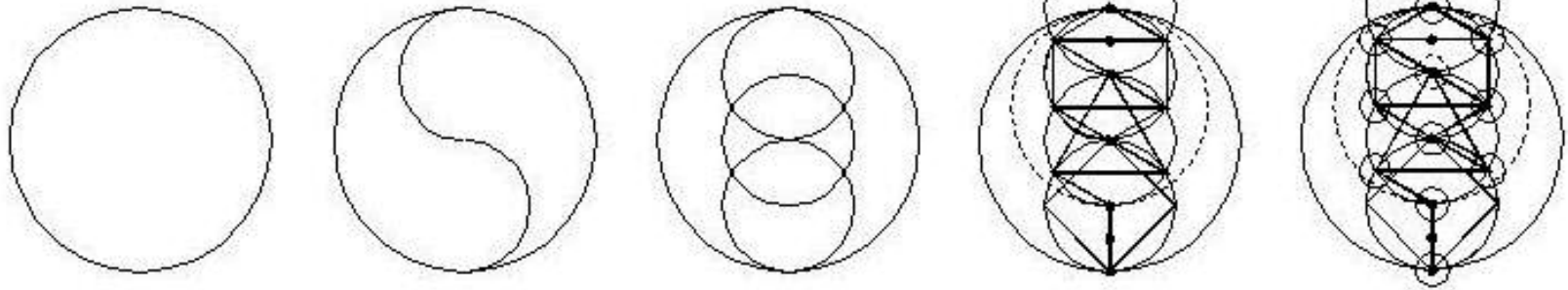


SG108.6.2 Vesicas in Physics



↑ The Feynman diagram
or “Diagram of the Void”

//earthacupuncture.info



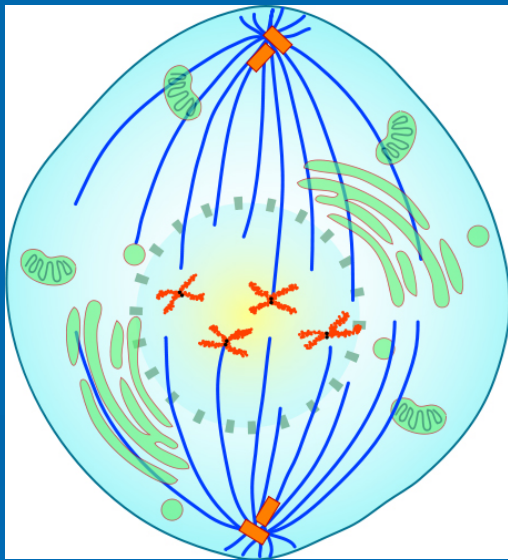
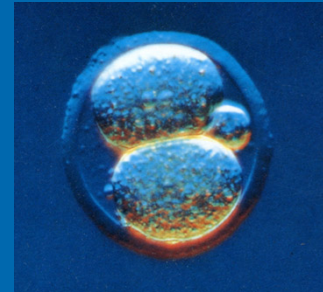
↑ Taoist physics: the Vesica generated by Two birthing Three.

“One gives birth to the Two. Two gives birth to the Three. Three gives birth to the myriad things.”

Lao Zi (Lao Tze). Dao De Jing

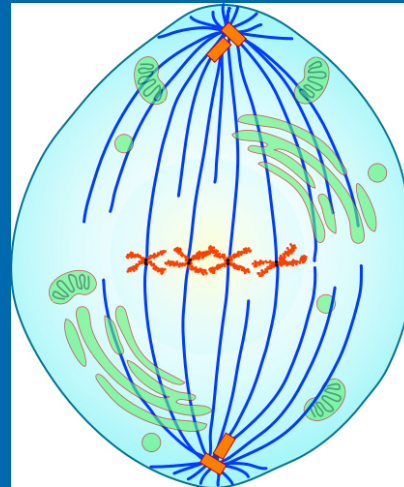
SG108.6.3.1 Vesicas in Biology (1)

Mitosis is the process by which a cell separates the chromosomes in its cell nucleus into two identical sets with two nuclei. Various phases are involved in this complex process. The prometaphase, metaphase and early anaphase are showing a dynamics of Vesica geometry.

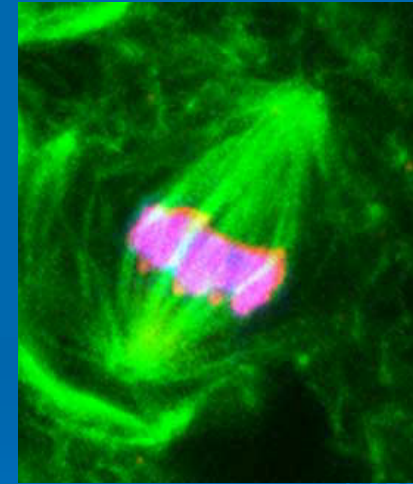


↑ Prometaphase of mitosis.

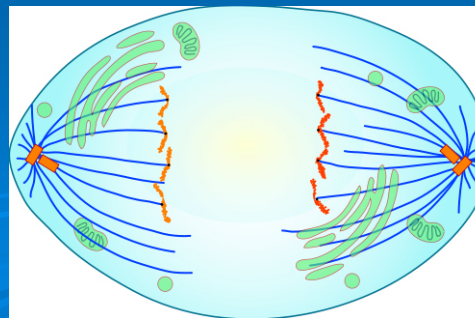
↑→ www.tutorvista.com



↑ Metaphase



↑ gen.cam.ac.uk



← Anaphase

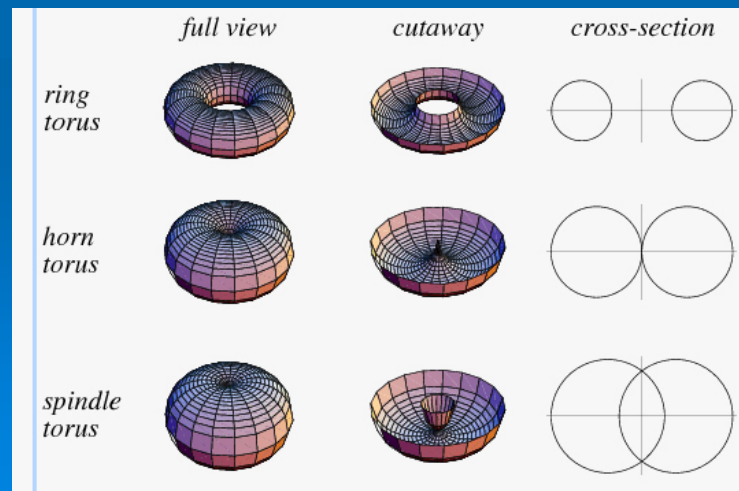
SG108.6.3.2 Vesicas in Biology (2) The Vesica Attractor

In his paper *The Second Ring of Life*, Christopher Humphrey writes:

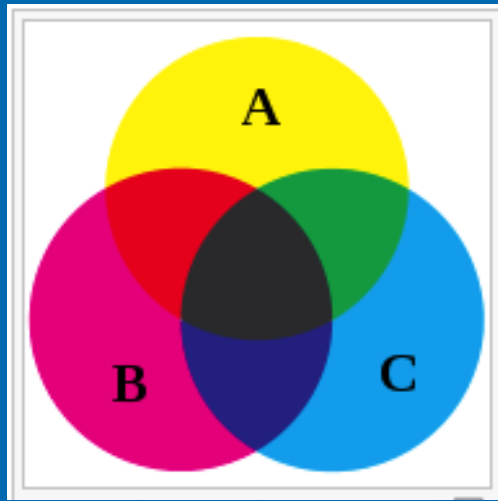
“Biological systems are formed around an *attractor*. This forms through organizational stages from a point, cycle, torus representing mineral spheres, prokaryote cells, and finally to a complex body plan after the self reflexive "Gaia Egg" (*Vesica Attractor*) is fertilized by a eukaryote of diverse genetic history. The elemental components formed around a logarithm. This geometry is expressed as the wave curls in on itself redirecting the linear flow into a circular one. Once the micro-environment had reached an energetic threshold, the archetypal components of the environment (oolitic spheres, cyanobacterial filaments, eukaryote cells) assemble into these spiraling patterns... and are rolled into a recursive, concentric contained form. Macro-dynamics constructs and assembles the Micro-components, that in turn capture and contain the Macro-dynamics.

Life, it turns out is based firstly on a flow of energy and secondly on the physical components contained in this flow, and this flow pattern is based on a logarithmic curve, or more well known as, the Geometry of Phi.”

<http://www.physics-philosophy-metaphysics.com/forum/vesica-attractor-evolution-of-life-t89.html>



SG108.6.4 Vesica in Cognitive Sciences



↑ A Venn diagram of sets A, B and C

Venn diagrams or set diagrams are diagrams that show all hypothetically possible logical relations between a finite collection of sets (groups of things). Venn diagrams were conceived around 1880 by John Venn. They are used in many fields, including set theory, probability, logic, statistics, and computer science.

The Vesica geometry is the archetype of ternary/trinity systems explaining reality and consciousness as the Synthesis/Tao of two primordial polarities (Thesis/Antithesis or Yin/Yang).

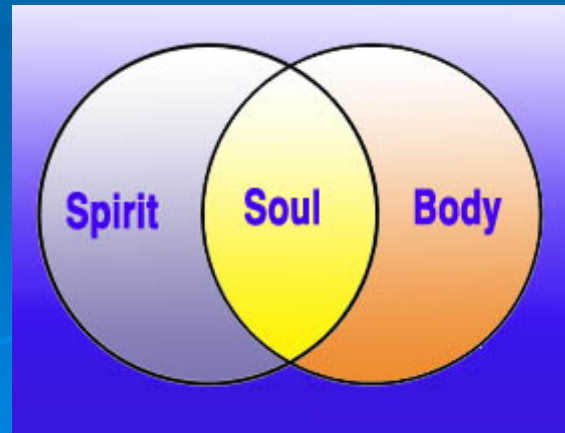
The 3 types of cognition are:

Objective Cognition: focus on & perception of external objects - the approach of science and western culture.

Subjective Cognition: focus on & perception of internal events with emotional, intuitive, psychic or spiritual content - the metaphysical approach of subtle/higher-dimensional realities.

Synthetic Cognition: awareness of a harmonic coherence/fusion between the subjective and the objective.

The Vesica represents the common overlap area, subsuming the dualistic engagement into either polarity. The Vesica symbolizes the harmonic merging/fusion of the right and left hemispheres of the brain, possibly through the Vesica-shaped pineal gland.

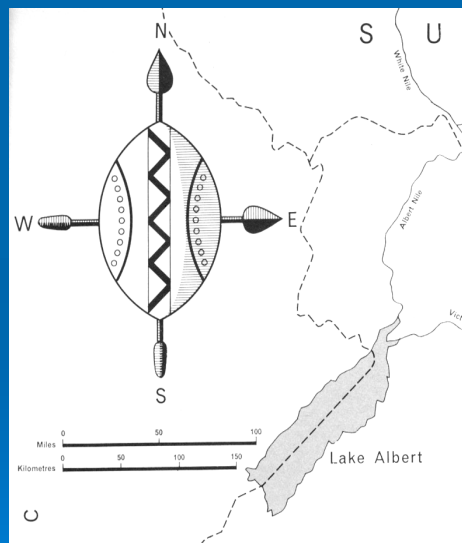


← The traditional tri-partite make-up of human life: Body & Spirit uniting in Soul

SG108.6.5.1 Vesicas in Ethnology (1)



↑ Masai Flag



Right: Masai warrior with shield.

Left: the Masai shield is a geomantic tool pointing to the four directions.
(Joy Adamson. *The Peoples of Kenya*.)

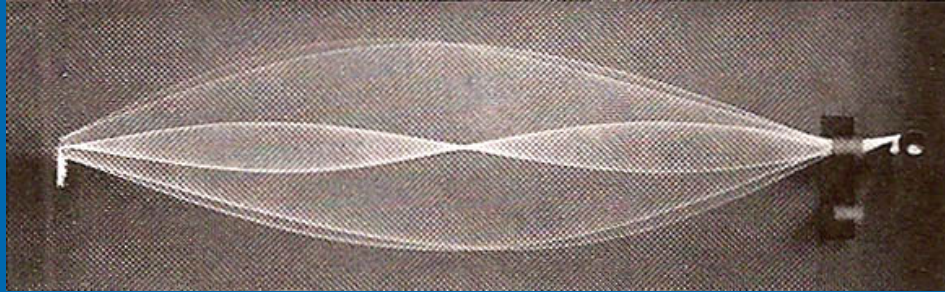
SG108.6.5.2 Vesicas in
Ethnology (2)



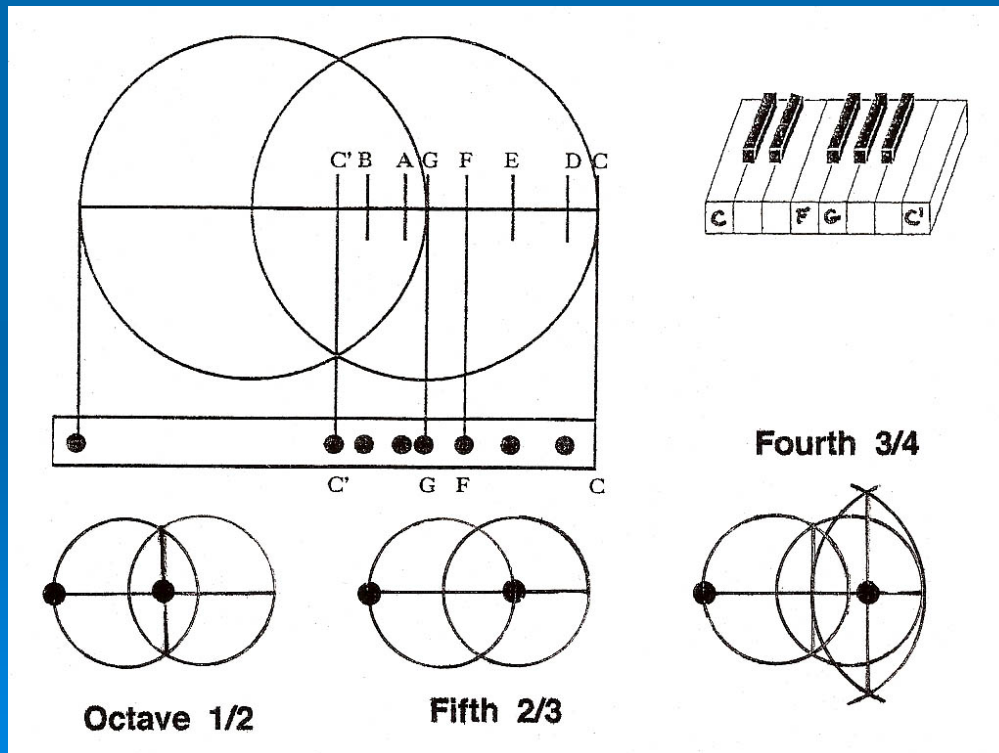
(//thestar.com.my)



Masai headdress. Kenya
(Joy Adamson. The Peoples of Kenya.)



↑ The vibrating string on a monochord takes the shape of a Vesica. Plucking the string half-way produces the higher octave and two Vesiculas.



SG108.6.6 The Vesica in Music



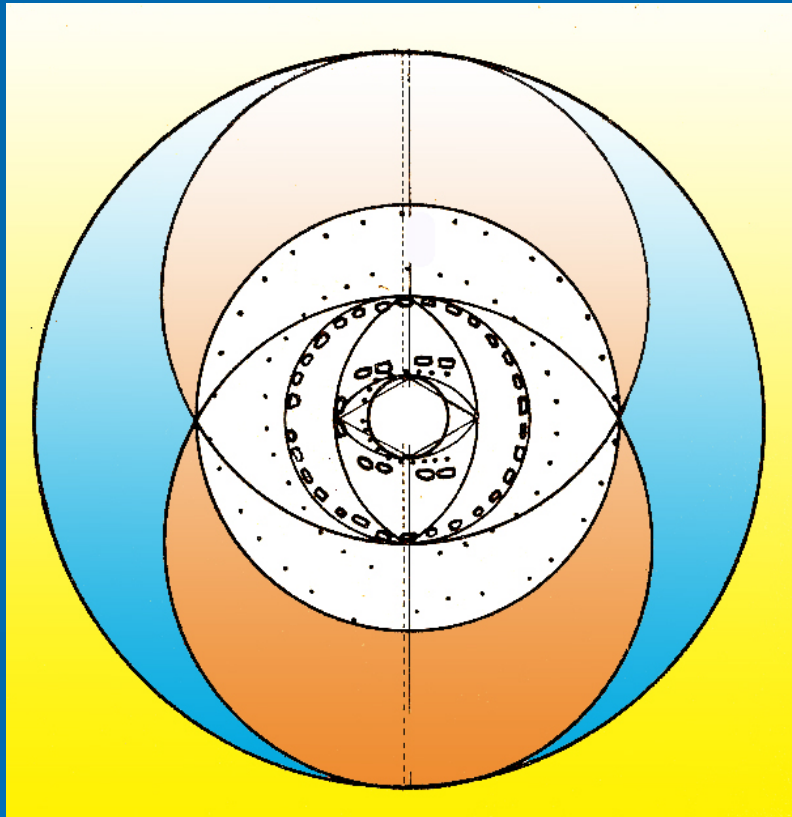
The Egyptian hieroglyph ↑ for “mouth” is a Vesica shape.

← Harmonic musical ratios can be located on a music instrument (holes on wind instruments and positions on string instruments) by using the geometry of the Vesica Piscis.

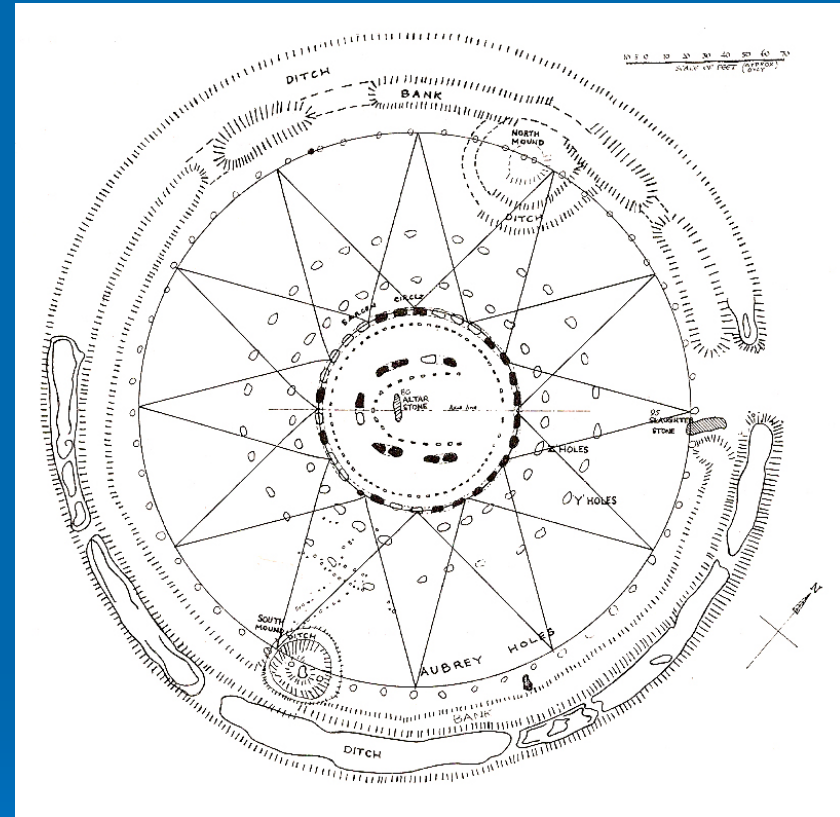
After Michael Schneider.
“A Beginner’s Guide to Constructing the Universe” (1994)
and “Activity Book” (2003)

www.constructingtheuniverse.com

SG108.6.7.1 Vesicas in Archeology - Stonehenge



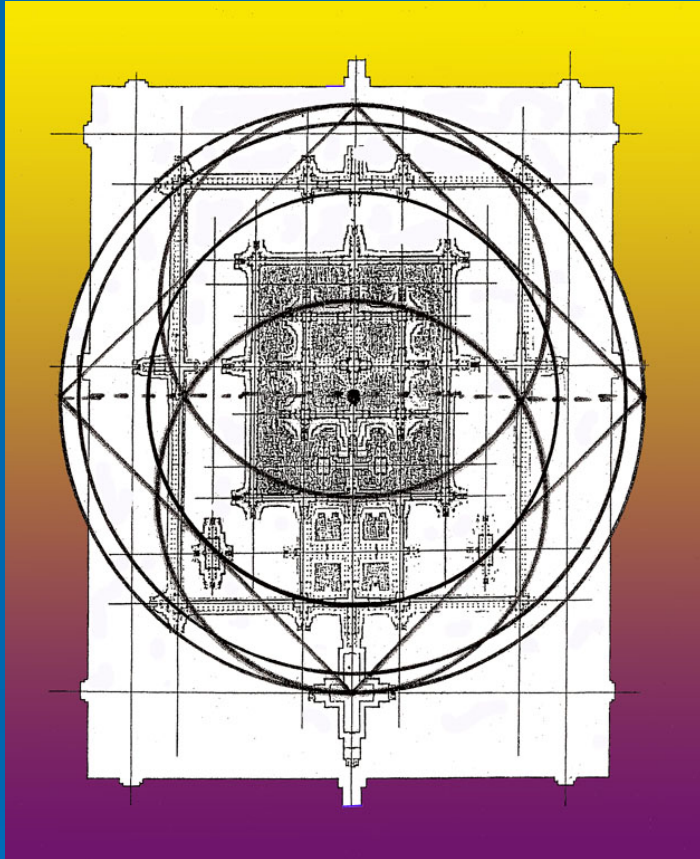
↑ Two circles of circumference 666 ft (solar numerology) form a Vesica with a width of 106 ft, which contains the *Sarsen* stone pillars & lintels.



↑ Ground plan of Stonehenge.

(After John Michell. *View Over Atlantis*. 1969)

SG108.6.7.2 Vesicas in Archeology



↑ The Vesica geometry in the terrace surrounding the temple.
Angkor Vat, Kampuchea (Cambodia).

(After Rene Dumont. *Angkor Vat par la Regle et le Compas*. France. 1996.)



← The elegant Vesica-shaped arches at Glastonbury Abbey.

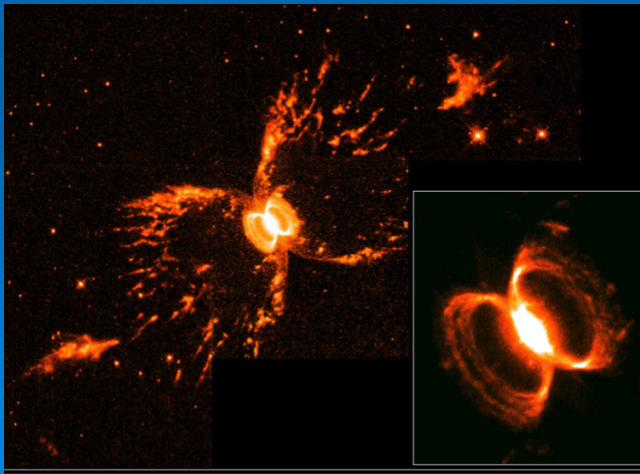


↑ Cleared potholes found beneath a mound at the Hatchel-Michell site in northeastern Texas.

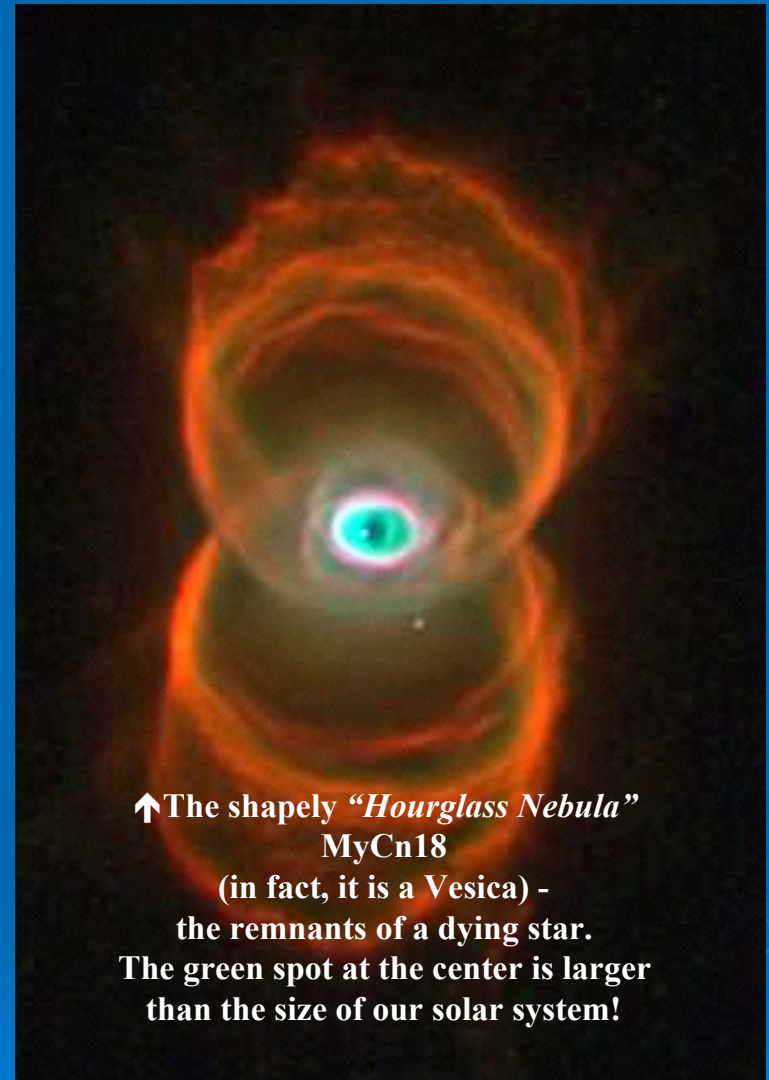
SG108.6.8 Vesicas in Astronomy



← Gamma ray burst rendering of two neutron stars colliding.



← The Southern Crab Nebula. He2-104.



↑ The shapely “Hourglass Nebula”
MyCn18
(in fact, it is a Vesica) -
the remnants of a dying star.
The green spot at the center is larger
than the size of our solar system!

SG108.6.9 Vesicas in Glastonbury



→ The Vesica-shaped maze at Glastonbury Tor



← The Chalice Well water is flowing into the pool through a series of Flow Forms shaped by sacred geometry.

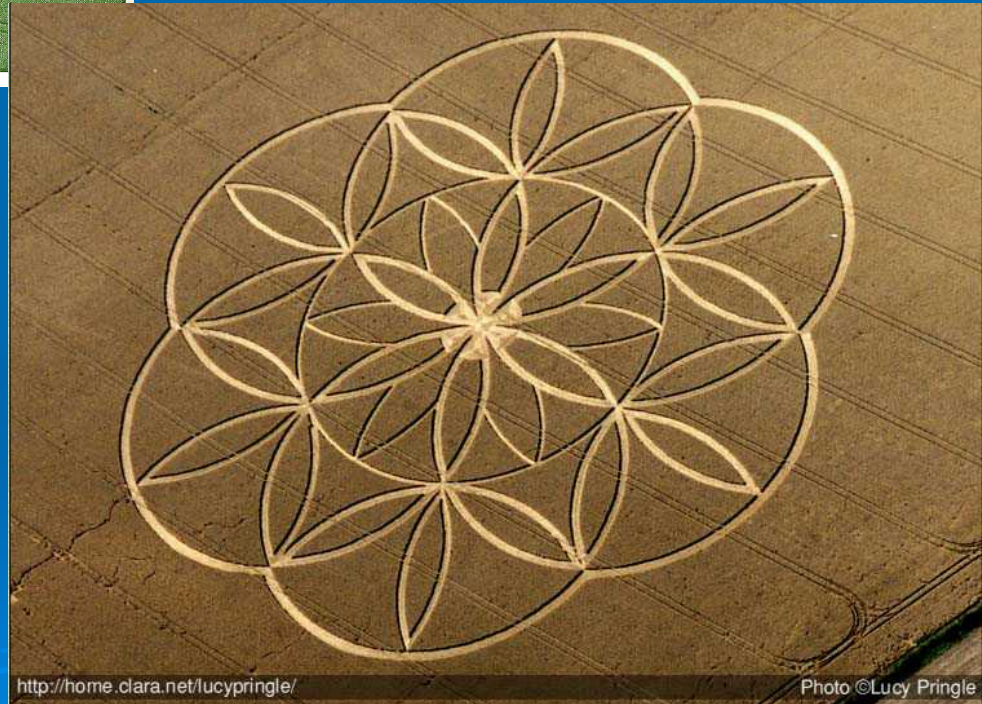


↑ The famous Chalice Well cover.

SG108.6.10.1 Vesicas in Crop Circles (1)



1994

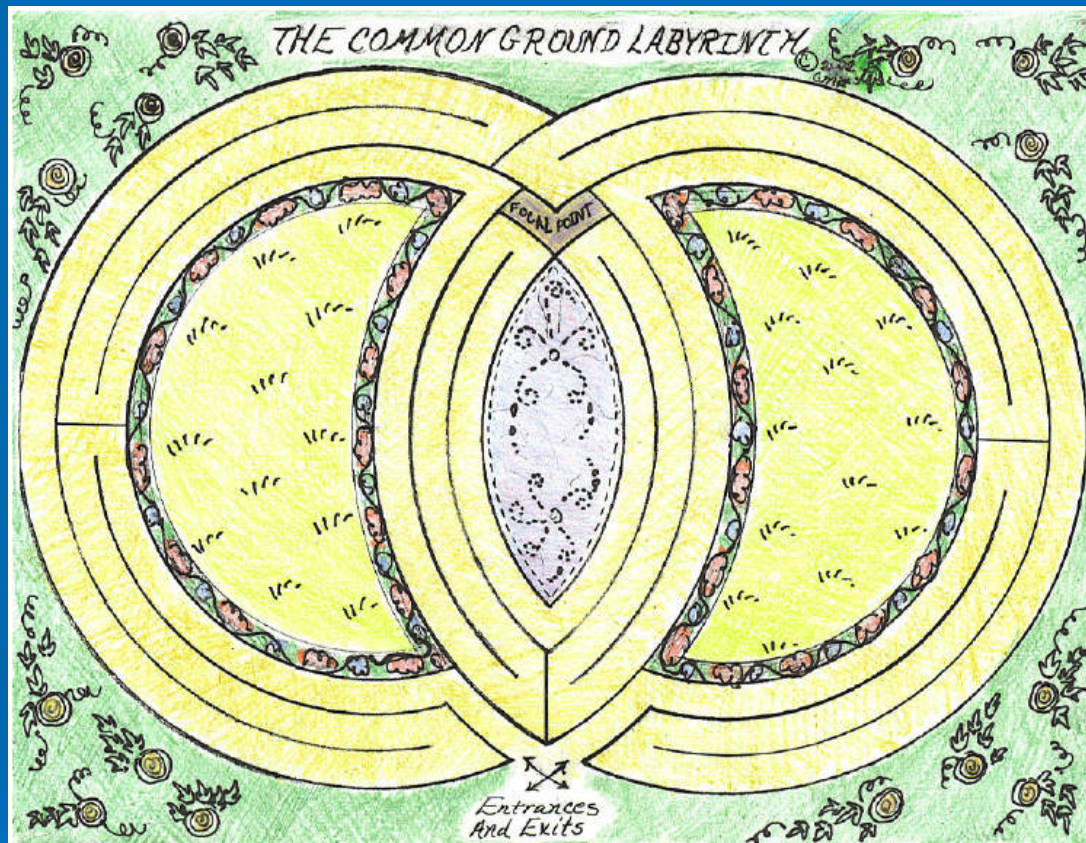


2003

SG108.6.10.2 Vesicas in
Crop Circles (2)



SG108 6.11 The Vesica Labyrinth



↑ Connie's version of the Common Ground Labyrinth, based on the Vesica Pisces symbol, was submitted to the Ground Zero Labyrinth Committee. It has been chosen to be included in their proposal to the Manhattan Development Committee for the World Trade Center Memorial in New York City.

www.yournatureconnection.com

In her “*Common Ground Labyrinth*”, Artist Connie is using the power of the Vesica to bring opposites into balance, heal separation and create wholeness.

The central “common” space formed by the overlapping circles holds the potential for the birth of new harmonious perspectives on dualities.

“In this new form of Labyrinth, we do not retrace our steps as we leave. Instead, we walk on to absorb the perspective that the second circle offers. We then exit through the opening opposite from our chosen entrance in order to experience and integrate the other perspective.”

Regardless of which choice one makes to enter, both views will be experienced because the paths lead us through each of the circles and out the other.”



SG108.6.12.1 Vesicas in Art (1)

With “Vesica consciousness” flowing from his hands onto paper and canvas, artist Robert Pasternak creates greater balance and wholeness for himself and for people viewing his art.

“If you look at a human body head on, and in your mind’s eye draw the simplest curve that can surround it, you get a narrow oval that approximates to a vesica. The Vesica is, in fact, the shape of the metaphysical “egg” that brings our bodies into being.”

“It’s the larger I. It’s the larger aspect of us. It’s ‘the outer shell’ from which our material, bodily form arises. It’s the Logos, the word made flesh. . . . It’s an opening. It’s an eye. It’s a portal. . . . It’s a very, very important structure . . . probably more basic than any of the other ones. I think it’s the beginning of the universe.”

And the portal opens both ways. Vesica begets body, but body transcends its limits by moving through that same portal, Pasternak suggests.

SG108.6.12.2 Vesicas in Art (2)



↑ The Flower of Life (6 Vesículas)
Findhorn Eco-Village.



www.avalonbeyond.com



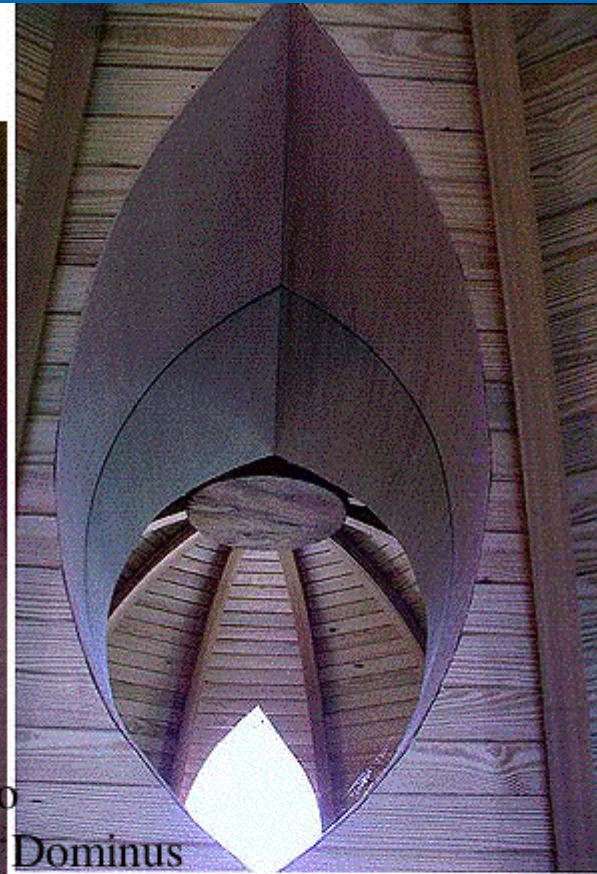
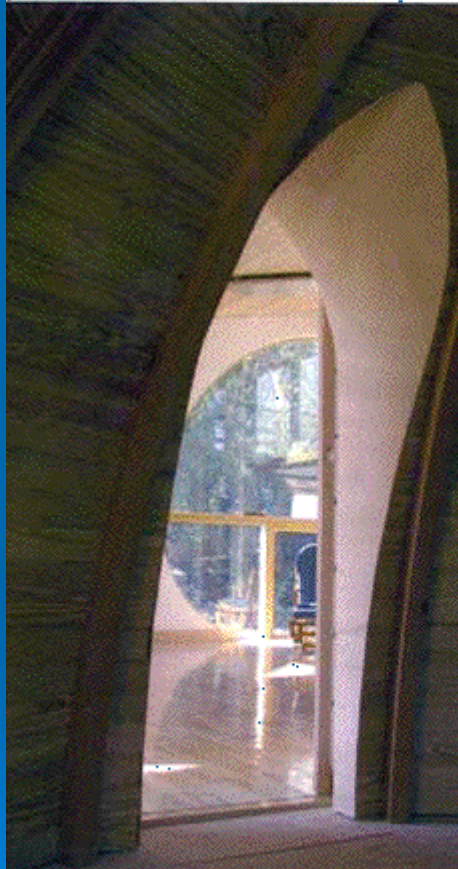
www.celticcraft.net



SG108.6.13
Vesicas in
Corporate
Logos



Michael Rice, Dublin.. Dome
Sacred Architecture



Domo -

Dominus

Dominate

Eggs-actly...

Domain

Dome..

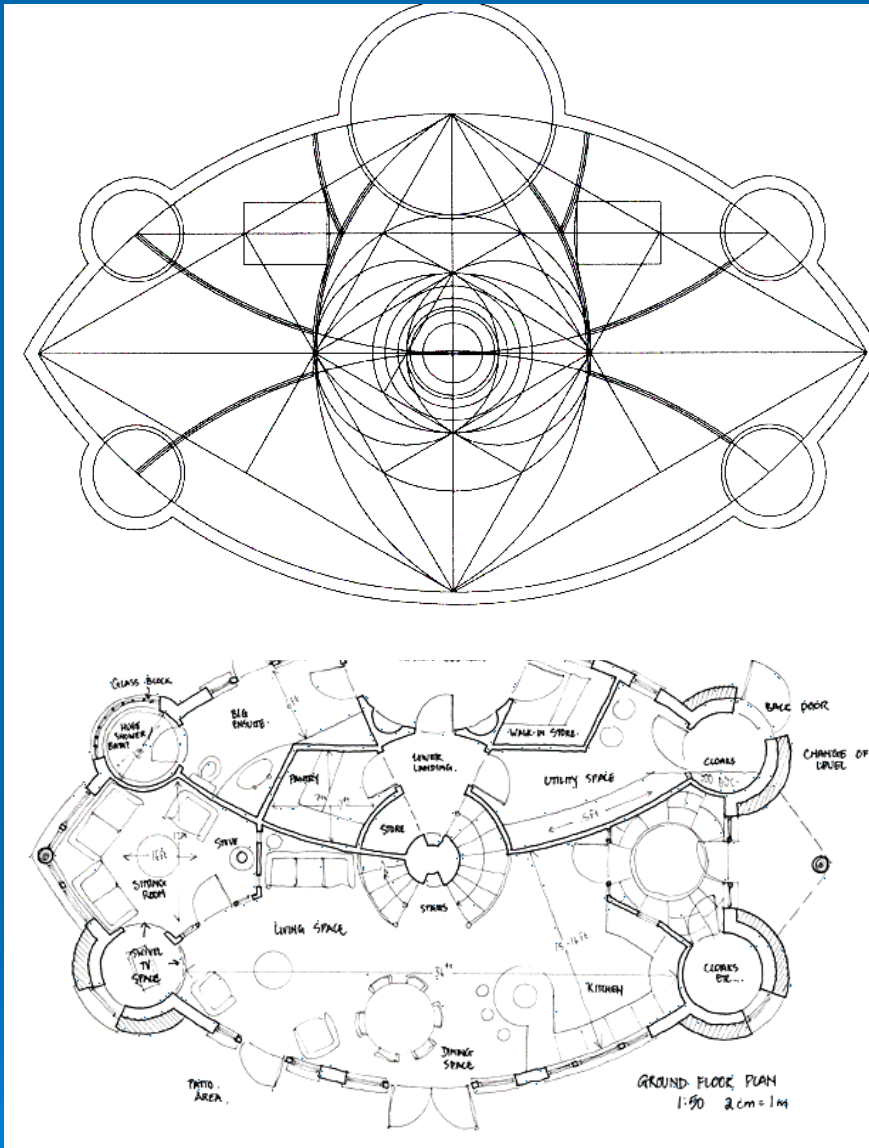
SG108.6.14.1 Vesicas in Architecture (1)

↑ A slide from Dan Winter. www.goldenmean.info
The architecture of Michael Rice. www.holisticarchitecture.com

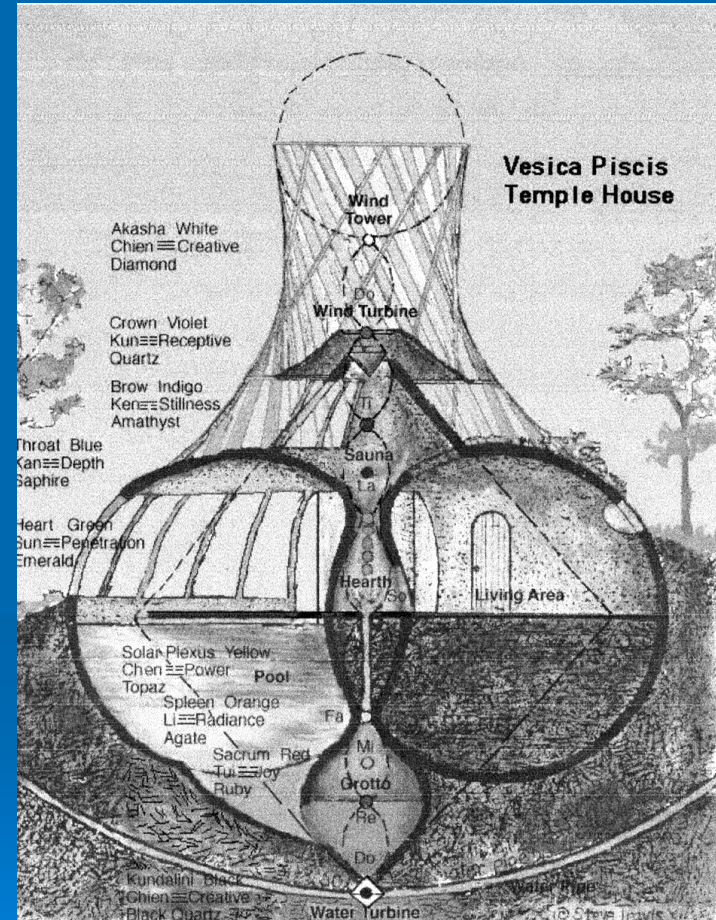


↑ Michael Rice. www.holisticarchitecture.com

SG108.6.14.3 Vesicas in Architecture (3)



↑ Vesica House by Michael Brice.

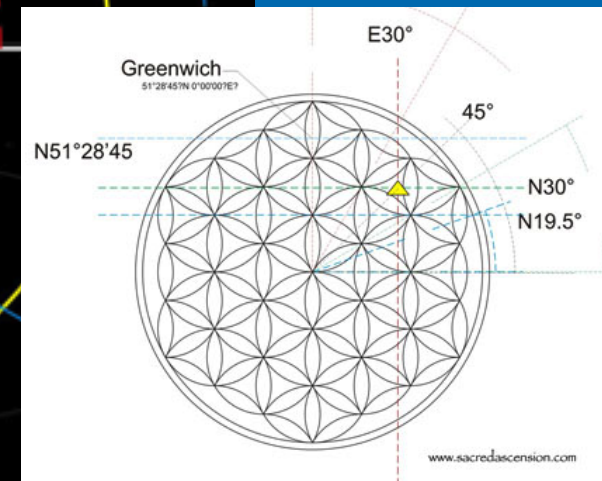
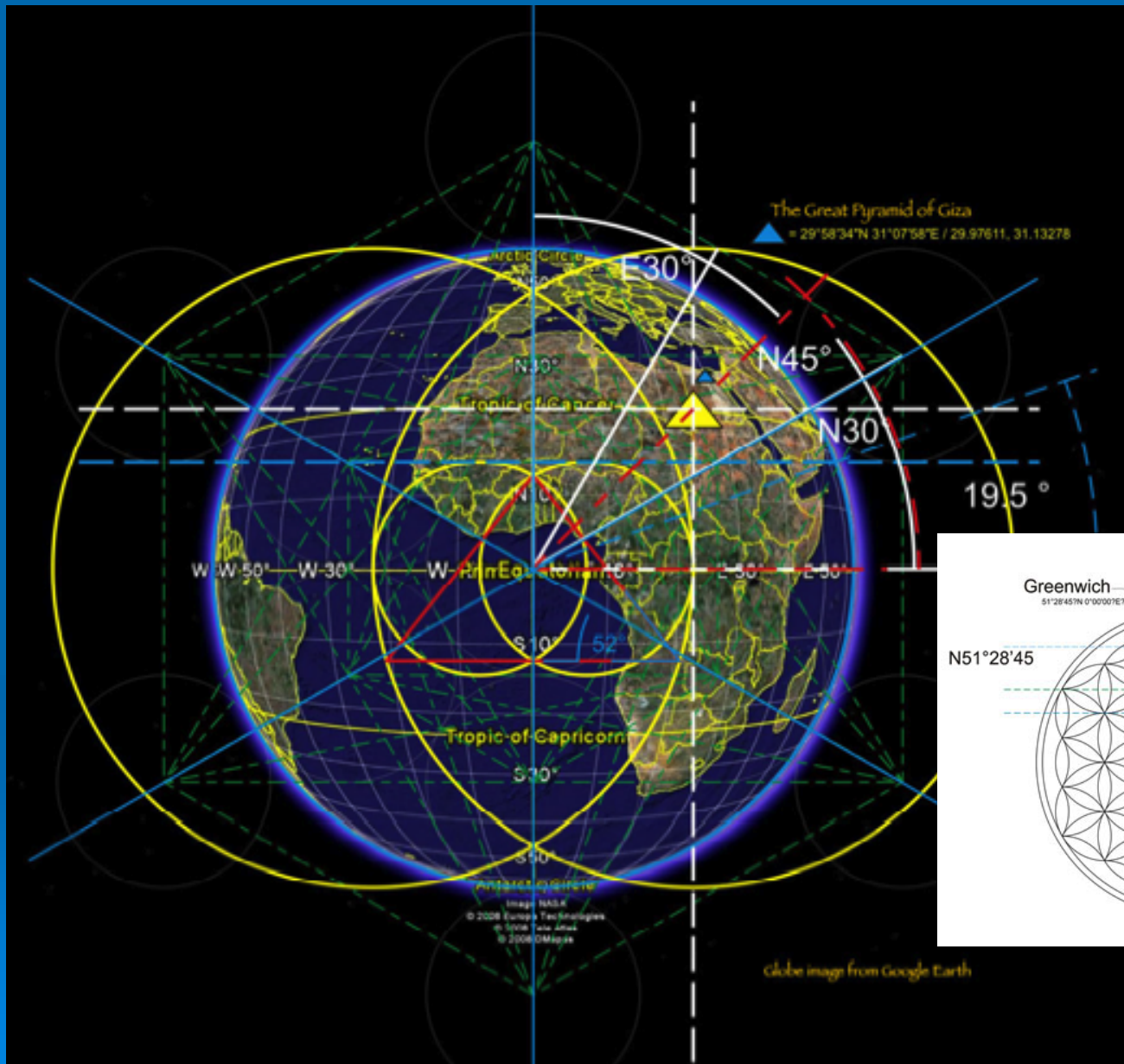


www.surfnetusa.com/travis/vesica.htm

SG108.6.15 Vesicas in Earth Grid

Images
by John
Paul Polk

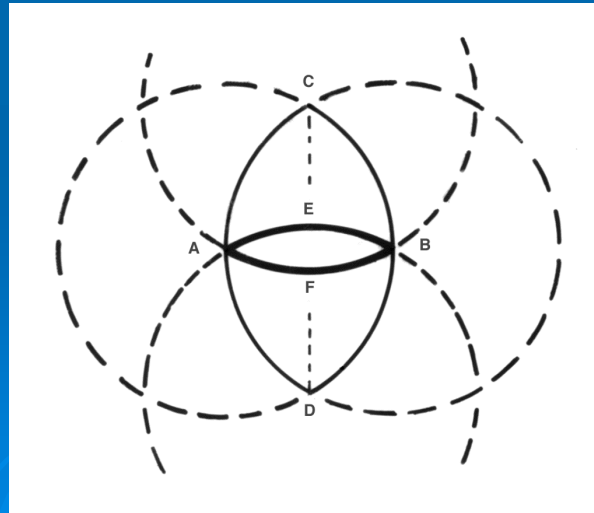
www.sacredascension.com



SG108.Ca. Conclusions

When we behold a Vesica, a question is arising:

**“Who is looking back at me,
from within the Eye of this Vesica ?”**



SG108.Cb1 Online SG School Curriculum: Intro & Intermediate

Sacred Geometry Introductory Level: 8 Modules

SG 101	Intro I	Sacred Geometry: Universal Order & Beauty
SG 102	Intro II	History & Traditions of Sacred Geometry
SG 103	Intro III	Sacred Geometry: A Grand Tour
SG 104	Intro IV	PHI: the Golden Ratio & the Fibonacci Series
SG 105	Intro V	The Golden Rectangle & Golden Spiral
SG 106	Intro VI	Pentagons, Pentagrams & the Penta-Modules
SG 107	Intro VII	The Five Platonic & 13 Archimedean Solids
SG 108	Intro VIII	The Vesica Piscis: Womb of Creation

Sacred Geometry Intermediate Level: 8 modules

SG 201	Interm I	The Monochord, Music & Cymatics
SG 202	Interm II	The Power of Archetypal Numbers
SG 203A	Interm IIIA	Sacred Geometry Resurgence in Science - Part 1
SG 203B	Interm IIIB	Sacred Geometry Resurgence in Science - Part 2
SG 204	Interm IV	PHI in the Human Body, Biology & DNA
SG 205A	Interm VA	The SG of Nature - Part 1: Plants & Phyllotaxis
SG 205B	Interm VB	The SG of Nature - Part 2: Animals & Minerals
SG 207	Interm VII	SG in Architecture, Sacred Sites & Green Design

SG108.Cb2 Online SG School Curriculum: Advanced

Sacred Geometry Advanced Level: 8 modules

SG 301	Adv I	Golden Cosmos: Planets, Stars & Cosmology
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SG 303	Adv III	Universal Symbols: Primordial Knowledge
SG 304	Adv IV	Labyrinths: a Mini-Pilgrimage to Self
SG 305	Adv V	Mandalas & Yantras: Sacred Vortices
SG 306	Adv VI	Languages & Gematrias: Sacred Communication
SG 307	Adv VII	Sacred Geometry in the Healing Arts
SG 308	Adv VIII	Harmony on Earth: Science & Consciousness of Harmony

Upon completion of each level (Introductory, Intermediate & Advanced), a Certificate of Graduation from the Sedona School of Sacred Geometry will be presented to Certification Students.

Postgraduate seminars on current Sacred Geometry research, discoveries & updates will be organized in the harmonic future.

Questions: phi@schoolofsacredgeometry.org

SG108.Cc Starwheel Blessing



SW113. "Blossom Flower" . www.starwheels.com



SG108.Cd Contact Info

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StarWheel Mandalas by Aya

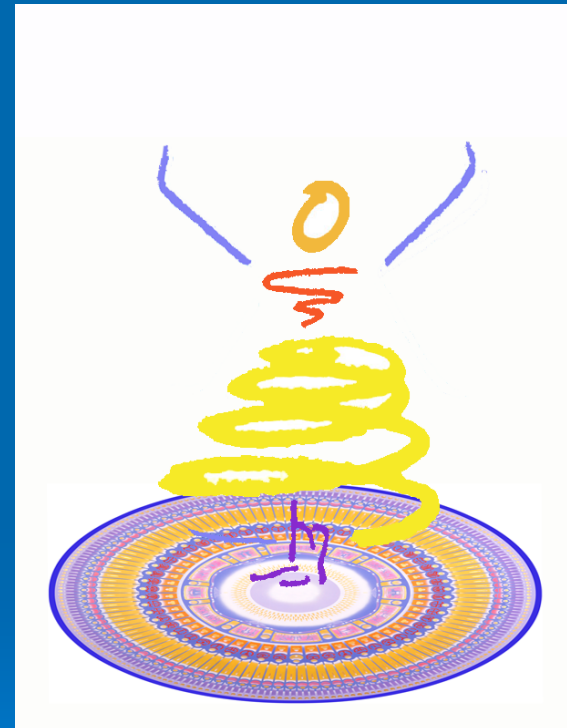
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Φ celebration



On Facebook: Aya Sheevaya
FB Group: Sedona School of Sacred Geometry



SG108.Ce About Aya

A native of France, Aya is a visionary artist and celebration yogi who has dedicated his life to serve humanity and to develop sacred arts education. In his late 20's, Aya realized that his professional life in the French diplomatic service was not fulfilling his heart's desires; he quit everything to go on an extended vision quest. His path took him around the world to visit a variety of sacred sites & cultures and to receive inspiration from many teachers.

In 1985, in Santa Monica, CA, Aya was gifted with a spiritual vision prompting him to create a series of 108 airbrushed neo-mandala paintings: the "StarWheels". The StarWheels, a happy family of vibratory flowers for the Earth, are looking for sacred spaces to be graced with their presence... (www.starwheels.com / www.starwheelmandalas.com)

Moving to Sedona, Arizona, in 1997, Aya has been involved with sacred arts classes & events, mandala creation, Sedona guided tours, labyrinth making and Sacred Geometry teaching. Aya has presented several StarWheel art exhibits, has sponsored community awareness events at the Sedona Library, has developed, in collaboration with Gardens for Humanity, the Peace Garden arboretum at the Sedona Creative Life Center, was a speaker at the Sacred Geometry Conference (Sedona, 2004), co-designed several labyrinth sites (The Lodge at Sedona, Magos' Ranch...), and was on the management team of the Raw Spirit Festival in 2006 - 2008.

Realizing that Sedona was progressively becoming a global spiritual university for many seekers from around the world, Aya founded in 2005 the Sedona School of Sacred Geometry. The school is offering online access to Sacred Geometry PDF modules, with 17 modules completed so far. In the school's website, Aya states: *"We are living at the extraordinary and exciting times of a global transformation to a higher order of human consciousness... Sacred Geometry is the expression and resurrection of our deep innate wisdom, now awakening from a long sleep: seeing again the all-encompassing, fractal-holographic unity of nature, life and spirit... The keyword is HARMONY."* (www.schoolofsacredgeometry.org)

Aya's visionary dream, supported by his non-profit educational organization, the StarWheel Foundation, is the co-creation of an international eco-village "The School of Celebratory Arts" - a green, tropical environment encouraging young people of all nations to develop their creative consciousness and thus contribute to a new, spirited, life-respecting global civilization on Earth. (www.starwheelfoundation.org).

Since 2012, Aya is dancing the body divine, after his re-discovery of Yoga, Partner Yoga and AcroYoga. Aya is currently the AcroYoga.org Jam coordinator for Sedona and a teacher of yoga swing asanas.

Blessings in Anjali!