

Vedic Mathematics, Science & Technology course

PART – VI **SELF REFERRAL STATE** (Chase steps 16, 17, 18, 19, 20 & 21)

Chase Step – 16

TRANSCENDENCE FROM BASE FOLD TO ITS
FORMAT STATE

Chase Step – 17

SELF REFERRAL RANGES

Chase Step – 18

HYPER CUBE 6

Chase Step – 19

SPLIT OF SPHERE INTO A PAIR OF HEMISPHERE

Chase Step – 20

EARTH TO SUN RANGE

Chase Step – 21

REAL 6-SPACE

I INTRODUCTORY

1. Creation format (4-space), transcendence process (5-space) and self referral state (6-space) are coordinated as organization presided by Trimurti (Lord Brahma, Lord Shiv and Lord Vishnu).
2. The transition from Triloki (3-space) / linear order set up to Trimurti to spatial, solid and hyper solid set ups is a sequential attainment of which self referral state is the culmination which takes us from transcendental base of manifestations to format of creation base.
3. With it self referral state, that way is of the features of :

- i. Artifice 6
 - ii. Real 6-space
 - iii. Hyper cube 6
 - iv. 6 x 6 matrix format
 - v. Sun
 - vi. Pursha (Existence within human frame).
 - vii. Self referral domains presided by Lord Vishnu, six head lord.
4. Accordingly, though the above features essentially the aspects of Advance VMS & T course, however at the present stage, introductory features of the same would be appropriate to be attended to.

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Chase Step – 16
**TRANSCENDENCE FROM BASE
 FOLD TO ITS FORMAT STATE**

- 5. Manifested creations of four folds (dimension fold, boundary fold, domain fold, origin fold): The transcendence from manifested creations takes to the fifth fold namely the Base fold, a step ahead, the base fold takes to its format as the sixth fold designated as self referral fold.
- 6. Base fold is the fifth fold, as such it is repository of transcendental features (5-space), and format of base fold is the sixth self referral fold repository of features of 6-space (self referral domain).
- 7. Reach from fifth base fold to sixth self referral fold, within creator's space (4-space) is of the features of transcendence from (Base) to its 'format' along grid format. It may be approached as 6 x 6 grid being framed within a pair of 5 x 5 grid frames.
- 8. This is of the feature of a format of two faces surface and that first phase being super imposed by 5 x 5 grid and likewise second phase as well standing super imposed by second 5 x 5

grid. This way the centers of grid zones of 6 x 6 grid would be fixed by the vertices of both sides placements of 5 x 5 grids.

9. This in a way would be of the nature of transcendence processing of two folds at centers of all the 36 grid zones of 6 x 6 grid.
10. The first transcendence processing would be of the nature of transcendence from 5 x 5 grid vertices to the corresponding centers of the grid zones.
11. Likewise the second processing fold would be of the nature of ascendance from the vertices of 5 x 5 grid to the corresponding centers of 6 x 6 grid.
12. This two fold transcendence processing happening at center of the grid zones of 6 x 6 grid makes this state as a self referral state; first phase of surface interacting with second surface of the face and each becoming replica of other and thereby there being a complete transfer of structural bag by the transcendental carriers (5-space) in the role of dimension; transcendental carriers with NVF value $222 = 111 + 111$, having affine synthesis of perfection (with NVF value 111) with perfection itself.
13. Self referral state being of format of transcendental base shall be because of the inherent features of this state of artifice 6, the first perfect number, shall be silently but smoothly and uniformly as a continuum shall be resulting into the set up of artifice 28, the second perfection number accepting precisely five divisors namely $2^0, 2^1, 2^2, 2^0 + 2^1 + 2^2$ and $(2^0 + 2^1 + 2^2) + (2^0 + 2^1 + 2^2)$.
14. The artifice 28 with organization features for unit place digit 8 as 2^3 and next place value digit 2 with organization features 2^1 , shall be leading to index values pair (1, 3) which is of reverse orientation for the reflection pair (3, 1) of the format of

(domain, dimension) / (3-space as domain, 1-space as dimension), a linear order set up.

15. All these features deserve to be chased to have a reach at the happening of transition for the self referral state of artifice 6 to unity state of artifice 28.

16. This transition, transformation and attainment of 6 x 6 matrix / grid super imposed and framed within pair of 5 x 5 matrix / grid format, for its processing chase is to begin with and proceed ahead as :

- i. Artifices pair (6, 5) being of the feature $6 = 2 \times 3$ and $5 = 2 + 3$
- ii. $6 = 3 + 3$ and pair of artifices (3, 3) and parallel to it (3-space, 3-space) in the role of (3-space as dimension, 3-space as dimension as a pair of solid dimension shall be synthesizing transcendental value '5' parallel to transcendental domain (5-space) domain.
- iii. Different roles of 6-space as well as of 5-space shall be contributing to the structural foundations for the sequential progression processing for transition from self referral state of 6-space to unity state of 7-space, which amongst others shall be as:
 - a. (6-space in the role of boundary of 7-space) is of seven components
 - b. 5-space in the role of dimension of 7-space constitute 7 transcendental dimension for dimensional frame of unity state.
 - c. This being a spatial order creator's space (4-space with 2-space in the role of dimension) shall be as zero number of dimension, single dimension and pair of dimensions shall be manifesting structural formats of 2^0 , 2^1 , 2^2 , which shall be synthesizing a set up of the features as well of $2^0 + 2^1 + 2^2$, and then in its repetitive feature (because of spatial order) as of the feature of $(2^0 + 2^1 + 2^2) + (2^0 + 2^1 + 2^2)$

17. Still further as it is going to be a transcendental phenomenon (because of 5-space) , as such there would be a split for a three dimensional frame into a pair of three dimensional frames of half dimensions with its origin being the seat of 4-space, so the split format would be of the feature of triple artifices (3, 4, 3) with summation value $3+4+3= 10$ which would further accept organization as $10 = 1 + 2 + 3 + 4$ along affine format of quadruple of artifices 1, 1, 1, 1.
18. This as such shall be of the feature of sequential structuring of quadruple artifices (1, 2, 3, 4) along affine format of quadruple artifices 1, 1, 1, 1. It is the summation value of manifestation along with format which shall be yielding artifice value $14 = 1 + 2 + 3 + 1 + 1 + 1 + 1$. Further this would lead to re-organization as $(14 = 2+3 + 4 + 5$.
19. The artifices quadruple (2, 3, 4, 5) and parallel to it four fold manifestation layer (2, 3, 4, 5) of hyper cube 4 would again focus upon 4-space with 5-space as its origin.
20. Still further the pair of manifestation layers (1, 2, 3, 4) and (2, 3, 4, 5) shall be synthesizing a transcendence range (1, 2, 3, 4, 5).
21. A step ahead, the pair of transcendence ranges (1, 2, 3, 4, 5) and (2, 3, 4, 5, 6) shall be leading to a self referral range (1, 2, 3, 4, 5, 6).
22. This self referral range (1, 2, 3, 4, 5, 6) shall be splitting into a triple manifestation layers namely (i) (1, 2, 3, 4) (ii) (2, 3, 4, 5) and (iii) (3, 4, 5, 6).
23. A step ahead a pair of self referral ranges (1, 2, 3, 4, 5, 6) and (2, 4, 5, 6, 7) shall be leading to quadruple manifestation layers (i) (1, 2, 3, 4) (ii) (2, 3, 4, 5) (iii) (3, 4, 5, 6) and (iv) (4, 5, 6, 7).

24. With it, the unity attainment as a range (1, 2, 3, 4, 5, 6, 7), is going to be of the features of a four fold manifestation layer with each fold itself being a four fold manifestation layer.
25. It would further lead us to five fold transcendence range itself being of the feature as that its every fold as well being a transcendence range along 5 x 5 matrix / grid format.
26. A step ahead would emerge a self referral range (1, 2, 3, 4, 5, 6) of the feature as that its each fold as well being a self referral range. And the process to continue and lead to the unity state.
27. However this attainment because of its dual manifestation feature as much as that each fold of manifestation itself being manifested one, so the unity state of 7-space format and of values of artifice 7, is to be of dual nature because of which there is to happen a transition and transformation at the middle of artifice 7 and 8 for hyper circles 1 to 7 to transit from increasing feature to decreasing feature from hyper circle 8 onwards.
28. This feature on its chase would lead us to being there because of super imposition of dimension folds and domain folds (of dual manifestation process of fold itself being manifested one).
29. Because of it, each fold of four fold manifestation layer becomes hyper cube and that being so there being super imposition of dimension folds upon domain folds illustratively in case of 5-space with 3-space as dimension shall be leading us to $5 + 3 = 8$ / hyper cube 8 accepting $2 \times 8 = 16$ boundary components while it shall be having $8 \times 6 = 48$ dimensional order (as that 6-space) shall be playing the role of dimension of 8-space.
30. The artifices pair (16, 48) shall be leading us to artifices values $1 / 3$ as well as $3 / 1$ available simultaneously for the structural set up.

31. In case of hyper cube 6 / artifice 6 which shall be leading to artifices pair (4, 6) / (4-space as dimension, 6-space as domain) and corresponding super imposition $4 + 6 = 10$ / hyper cube 10 with boundary components $10 \times 2 = 20$ and dimensional coordinates $10 \times 8 = 80$ will yield artifices pair 20, 80 and hence the artifices value $\frac{1}{4}$ and $\frac{4}{1}$ being simultaneously available.
32. Parallel to these $3 + 5 = 8$ and $4 + 6 = 10$, even values super imposed hyper cubes, there would be a sequence of super imposed odd values hyper cubes say hyper cube 7, hyper cube 9 and so on.
33. In case of hyper cube 7 / artifice 7, the boundary components would be 14 while the dimensional coordinates would be 35 and corresponding artifices pair (14, 35) / (2, 5) shall be yielding artifice value $\frac{2}{5}$ and $\frac{5}{2}$ for their simultaneous play.
34. This in case of hyper cube 15 shall be leading to artifices pair (30, 195) / (2, 15 with corresponding artifices value $\frac{2}{15}$, $\frac{15}{2}$) simultaneously coming into play for structural set up, it is this value $\frac{15}{2}$ which takes us to the middle of artifices of 7 and 8.
35. Here it would be relevant to note that $15 = 2 \times 7 + 1$ is parallel to geometries range of hyper cube 7.
36. Likewise $13 = 2 \times 6 + 1$ is parallel to 13 geometries of hyper cube 6. This coordination of artifices pair (15, 13) and parallel to it coordination pair of (15 geometries range of hyper cube 7), 13 geometries range of hyper cube 6 lead to hyper cube 7 format wherein 7-space is enveloped within 6-space.
37. It would be a blissful exercise to chase artifices triple (1, 3, 7) as 1-space in the role of dimension of 3-space which accepts 7 geometries range.

38. Likewise in general n -space plays the role of dimension of $n + 2$ space which accepts $2n + 1$ geometries range. It is this chase of triple of artifices of $(n, n + 2, 2n + 1)$ which will help us provide an insight about the transition from self referral state of 6-space to unity state of 7-space.

Chase Step – 17
SELF REFERRAL RANGES

- 39. Self referral ranges $(n + 0, n + 1, n + 2, n + 3, n + 4, n + 5)$ in their consecutive pairs synthesized unity states.
- 40. It is to have a reach from artifice 6 to artifice 7.
- 41. Parallel to it would be a reach from 6×6 to 7×7 .
- 42. However $6 \times 6 \times 6$ cage there would be super imposition for all values cages $(n \times n \times n)$.
- 43. It is this feature which is a unity state feature splitting back into a pair of cages.
- 44. This split of a unity state back into a pair of self referral state cages, that way simultaneously becomes the feature of self referral state as well.
- 45. It is a Sama Veda state feature.
- 46. It is a feature of seven edges of cube sustaining 6 surfaces of the cube.
- 47. It is the feature of reflection operation transiting into refraction operation.
- 48. It is the feature of reversal of super imposition of dimension fold and domain fold, parallel to the reversal of pair of orientations of an interval.

49. It is of the feature of single reflection pairing (object, image) format transiting and transforming into a pair of reflections but in opposite orientation like, at first step being (object, image) and at next step being (image, object). It is of the feature of a split of a sphere into a pair of hemispheres.
50. It is of the feature of triple distinct digit number formatting six number of triple digits

Chase Step – 18
HYPER CUBE 6

51. Hyper cube 6 format (4, 5, 6, 7) accepts
- i. spatial order creator's space in the role of dimension
 - ii. and with it the self referral domain (6-space as domain) is of the feature of transcendence format triple (2, 4, 6)
 - iii. summation value $(2+4+6) = 12$ parallel to 12 components of transcendental boundary (5-space in the role of boundary)
 - iv. each transcendental component is having transcendence format triple (1, 3, 5)
 - v. the summation value $(1+3+5) = 9$ parallel to 9 geometries range of 4-space,
 - vi. 4-space is in the role of dimension of self referral domain of hyper cube 6.

- vii. The transcendence triple format (1, 3, 5) leads to transcendence quadruple format (1, 3, 5, 7)
- viii. Fourth fold namely origin fold of hyper cube 6 is of the values and features of 7-space
- ix. The transcendence triple format (2, 4, 6) leads to transcendence quadruple format (2, 4, 6, 8).
- x. The base fold for hyper cube 6 is of the values and features of 8-space.
- xi. The base fold of hyper cube 6 is of, amongst others, following features:
 - a. $8 = 2 + 6$ is parallel to super imposition of dimension of dimension and domain fold
 - b. $8 = 3 + 5$ is parallel to super imposition of dimension fold upon domain fold
 - c. $8 = 4 + 4$ is parallel to dimension fold duplicating itself
 - d. The base fold becomes the fifth fold of the transcendence range (4, 5, 6, 7, 8) with summation value of all the five folds being $4 + 5 + 6 + 7 + 8 = 30$ is parallel to 30 components of the set up of cube, namely
 - (i) 3 dimensions
 - (ii) 8 corner points
 - (iii) 12 edges
 - (iv) 6 surfaces and
 - (v) 1 volume;
 it as such is the set up where origin is just an another point of the domain itself,
- xii. that way base of hyper cube 6 seals the transcendence and makes 6-space domain as a self referral domain
- xiii. It is with the origin distinctively marking its presence and allowing transcendence therefrom to format beneath the base, which shall be completing the attainment of the unity state for the self referral state.
- xiv. It is this set of 31 structural component of cube / 3-space in the role of dimension and 6-space in the role

of origin which shall be attaining unity state transcendence triple (1, 3, 7) parallel to 1-space as dimension leading to 3-space as domain of 7 geometries range as complete structural expression for an order as a unity state format for the base of hyper cube 6 of attainability of two fold steps, firstly as manifestation layer (1, 2, 3, 4) and secondly as manifestation layer (4, 5, 6, 7).

Chase Step – 19
**SPLIT OF SPHERE INTO
A PAIR OF HEMISPHERE**

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52. Split of a sphere into a pair of hemispheres is of the format of triple set ups (first hemisphere, center and second hemisphere)
53. This triple format permits chase in terms of triple artifices (17, 18, 19)
54. Artifice 17 with artifice 7 as digit 7 at unit place and as artifice 1 / digit 1 at next place value (here ten place value) is of the feature of a reach from artifice 7 to artifice 1.
55. Parallel to above feature of artifice 7, in respect of artifice 18, it would be of the feature of a reach from artifice 8 to artifice 1.
56. Likewise for artifice 19 it would be a reach from artifice 9 to artifice 1.
57. The reach from artifice 7 to artifice 1 is like a reach of the unity state range of increase of hyper circles 1 to 7.
58. The reach for artifice 18 as a reach from artifice 8 to artifice 1 can be parallel to a reach from 2^3 to 1^3 .
59. On the other hand a reach for artifice 19 would be a reach from 3^2 to 1^2 .

60. All these features workable in terms of artifices (1, 2, 3, $2 \times 3 + 1$, 2^3 and 3^2 , ultimately would take us to 3-space as domain and to a sphere as hyper sphere 3.

61. Further the above features shall be taking us to a split of a three dimensional frame into a pair of three dimensional frames of half dimensions and of opposite orientations with origin as a seat of a spatial order 4-space, which shall be parallel to artifices triple (3, 4, 3).

62. As within 4-space, 3-space bodies / solids / cube / hyper cube 3 / hyper sphere 3 shall be having a degree of freedom of motion as such 3-space in its role as dimension shall be structuring hyper cube 5 at origin which would be of the artifice value $18 = 3 + 4 + 5 + 6$.

63. It is this format of triple artifices (17, 18, 19) which in a way would be parallel to 18 place value system whose double digit would get organized along 17 x 19 matrix / grid format and it is this feature which deserves to be chased for 3-space as axis and 6-space as origin working out $3 \times 6 = 18$ artifice value.

64. There are 17 *Sama*

Transcendental code value of formulation सामः 'Sama' is 15 which constitutes artifices pair (15, 17) of the format of dimension, domain.

65. Artifice 15 is parallel to dimensional equivalence value $1 \times 3 \times 5$ of transcendental domains manifested (5-space) content

Chase Step – 20
EARTH TO SUN RANGE

66. (Earth, Water, Fir, Air, Space, Sun) is a six steps long range.

67.This range as such of features parallel to six steps long artifices range (1, 2, 3, 4, 5, 6).

68.NVF (Earth)= 52 = NVF (Six), that way help us have a reversal of orientation for the above range as (6, 5, 4, 3, 2, 1).

69.It is this super imposition of orientations which shall be making interval as hyper cube 1 of four folds (-1, 0, 1, 2) with 2-space in the role of origin.

70.The pair of values flow streams:

1	2	3	4	5	6
6	5	4	3	2	1

shall be leading us to summation value 7 at all phases and differences values range (5, 3, 1, -1, -3, -5) which permits split at the middle in two parts (5, 3, 1) and (-1, -3, -5) of the format of pair of limbs of parabolic format.

The above feature of transcendence in continuity through out and still as a pair of flow streams will provide us an insight about the Earth to Sun range and 'Sky' with NVF (Sky) = 55 at the middle.

Here it would be relevant to note that artifices pair (5, 5) parallel to pair of transcendental dimension (5-space) in the role of dimension shall be leading as 7-space as domain and parallel to it synthesis value 7 / artifice 7, as has been the attainment of summation value at all the phases of above pair of values flow streams

1	2	3	4	5	6
6	5	4	3	2	1

71.It is this feature of chase of Earth to Sun range which deserves to be comprehended well and to be imbibed fully to have deep insight about the way pure and applied values of this range need be chased and exploited in unison with the features of the range and it would provide a transition from the present introductory course of VMS & T to the advance course of VMS & T.

Chase Step – 21
REAL 6-SPACE

72. Real 6-space is our existence phenomenon.
73. Sun is manifested as 6-space content set up.
74. Human body as well 6-space content set up.
75. Sathapatya measuring rod is synthesized as a set of hyper cube 1 to hyper cube 6 formats.
76. Human frame is sustained as a coordinated Shad Chakras (six eternal circuits) of the formats of hyper cubes 1 to 6.
77. The external characteristics of Shad Chakras are as range of artifices ratio factors (2, 4, 6, 8, 10, 12) parallel to the range of factors of boundaries of hyper cubes 1 to 6.
78. The manifestation layer (3, 4, 5, 6) with 3-space in the role of dimension and 6-space in the role of origin will help us chase and comprehend solids moving and their motions as a degree of freedom of motion of 3-space bodies shall be making their dynamic state as 4-space reality.
79. Cube permitting a split into 8 sub cubes parallel to split of a space within 3 dimensional frame as 8 octants shall be locating 4-space at the origin of 3-space set up / center of cube / solids.
80. It shall be bringing us face to face with the reality of hyper cube 4 existence in continuity of interval, square and cube.
81. It shall be making a set up of quadruple (interval, square, cube, hyper cube 4) and parallel to it there would be quadruple of artifices (2, 4, 6, 8).
82. 1-space / interval / line / linear axis and triple of them synthesizing a three dimensional frame as a set-up of six half

dimensions synthesized at origin. This synthesis brings into existence four diagonals coordinating eight vertices of the cube whose split as eight half diagonals make them of structural formats of spatial order as comparison to linear order of axis of 3 dimensional frame.

83.The real 4-space as such permits framing in terms of dimensional frame of 4 spatial dimensions.

84.The transition from linear axis to spatial axis will permit transition ahead to solid dimensions and thereby there would be a transition from real 4-space to real 5-space with hyper cube 5 as its body accepting ten boundary components.

85.Reality of 6-space as a set-up of hyper cube – 4 as dimension (4-space) as dimension is abundantly evident at Earth with everywhere existence of TREES with braches along all diagonals of linear, spatial and solid arms.

86.Following NVF equations may be of help to comprehend and to have an insight about existence of real 6-space:

$$\text{NVF (Tree)} = 48 = 2 \times 4 \times 8$$

$$\text{NVF (Earth)} = 52 = \text{NVF (Six)}$$

NVF (Sun) = 54 = 6 x 9; 6, 7, 8, 9 in manifestation layer with 6-space in the role of dimension and 9-space in the role of origin.

87.Following roles of 3-space as well will help comprehend and to have insight about real 6-space.

0	1	2	3
1	2	3	4
2	3	4	5
3	4	5	6
4	5	6	7

88.6-space shall be having following roles

3	4	5	6
4	5	6	7
5	6	7	8

89. Sixth Chakra location at top of head and its coordination with Sun through Sun Rays as of seven colors spectrum and the organization $6 + 7 + 6 = 19$, on its chase may further help us to comprehend and to have an insight about another features of reality of 6-space existence phenomenon.

90. Still further the following feature may add to our comprehension and insight about real 6-space

- i. Rigved has 21 branches and artifice 21 accepts re-organization $21 = 1 + 2 + 3 + 4 + 5 + 6$
- ii. Linear order structures 3-space of 7 geometries range and artifices triples (1, 3, 7) leads to artifices values $1 \times 3 \times 7 = 21$.
- iii. NVF (Body) = 46 = NVF (Logic).
- iv. Artifices pair 46, 64 is of summation value $46 + 64 = 110 = \text{NVF (Sunlight)}$
- v. Transcendental code value of Sanskrit formulation रश्मिः (Rashmi) = $3 + 1 + 2 + 2 + 9 + 1 + 13 = 31 = \text{NVF (Cube)}$
- vi. Transcendental code value of Sanskrit formulation प्रकाशः Parkarsh = $5 + 1 + 1 + 1 + 2 + 2 + 1 + 13 = 26 = \text{NVF (God)}$.
- vii. Transcendental code value of Sanskrit formulation सूर्यः Surya = $3 + 6 + 2 + 1 + 1 + 13 = 26$, which is of the range of 26 meters and parallel to it is the range of 26 components of boundary of cube, as well as there are 26 primes (including 1) uptill 100 and also there are precisely 26 sporadic groups.