

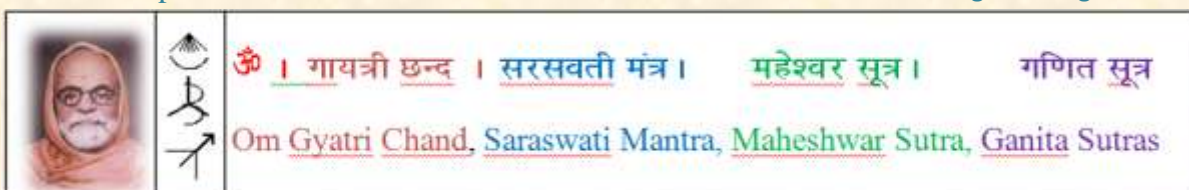
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VEDIC MATHEMATICS AWARENESS YEAR

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Vedic Mathematics,
(Sunlight format Mathematics)
Concepts of Transcendence
Mathematics of Creators space

3-Space VMS & T

1. Cube as Hyper cube-3

2

Two Faces of surface

1. Within 3-space, surface has a pair of faces.
2. It is parallel to format being of a pair of faces.
3. With it the pair of linear order setups $(-1,0,1,2)$ and $(-1,0,1,2)$ shall be synthesizing as $(1,2,3,4)$, because of which the surface of a pair of Faces within 3-space, becomes of solid domain format and features.
4. It is this feature of surface with a pair of Faces which deserves to be comprehended well.
5. This feature shall be comprehended well for its proper appreciation.
6. It is by well comprehension and proper appreciation that one can imbibe the format and features of surface of a pair of faces.
7. It is by through imbibing of the format and features of a surface of pair of features that one can have desirable insight about this setup.

8. It is by deep insight about the surface of a pair of faces that one can have enlightened vision about the role of a surface of a pair faces for the structures of the volume content of solids/3-space bodies/cube/domain fold of hyper cube-3.
9. One may have a pause here and take note that the spatial setup is approached by Vedic systems along 5 x 5 grid matrix format parallel to 5 x 5 format of Verga consonants.
10. It would be relevant to note that the arrangement of 5 x 5 Verga consonant has the transcendental code values organization as under:

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

11. The availability of above arrangement of organization along both faces of the surface, shall be leading to synthetic value arrangement of organization as under:

3	4	5	6	7
4	5	6	7	8
5	6	7	8	9
6	7	8	9	10
7	8	9	10	11

12. Further it would be relevant to note that caged space within geometric envelope of cube accepts 10 directional frames for the space within cube/volume of the cube.
13. Further, It would be relevant to note that boundary fold of hyper cube-3 is a setup of 6 surface plats. That way sad six surface plates together with 10 spatial formats for 10 directions shall be leading to $6 + 10 = 16$ spatial formats.
14. Here It would be relevant to note that surface plates of the cube are of a pair of faces as internal and external faces.
15. One may have a pause here and take note that internal faces become part of the volume of the cube while external faces become the base of the outer space.

16. With it, as for as the six surface plates of cube are concerned, same are of different roles for their internal and external faces. However as for as the 10 directional frame is concerned the same as a pair of faces for each direction of which the first phases is in respect of its role within the volume of the cube, while the second face phase is about its role in the outward space, that is space outside the cube.
17. Accordingly the pair of phases of each direction and a pair of faces of each surface deserves to be chased distinctively.
18. One may have a pause here and take note that the pair of faces of a surface within cube shall be having practically identical format and features.
19. Likewise the pair of the faces of the surface of outside space (Space outside of the cube) as well shall be of practically identical format and features.
20. However the format and features of pair of faces of inner surfaces and of outer surfaces would be distinct.
21. The surface plates of cube shall be having distinct format and features for their two faces.
22. One may have a pause here and take note that 5 x 5 grid/matrix format of transcendental code values arrangements of organization of Verga consonants, as single face arrangement organization along square face, can extend as a spread sheet of 10 x 5 setup along a pair of quarters of a square.
23. One may have a pause here and take note that rows and columns of 5 x 5 grids have their flow progressions from west to east for rows and from north to south for columns.
24. Further at the fifth sequential setups of rows, there may be a mirror like reversals, which that way shall be taking back from fifth sequential setups to fourth sequential setups and so on.
25. Further in case of columns as well there may happen similar reversal progression.
26. However in case of columns from fifth sequential setups there may be a diversion along the diagonal format.
27. One may have a pause here and take note that this format is going to be parallel to the format of north east diagonal.
28. This diagonal format, as such would be of 3 phases and stages. The middle phase would be of the diagonal part of 5 x 5 formats itself.

29. Other two parts would be of extension outward from the fifth sequential setups of first row and first Column respectively.
30. Here It would be relevant to note that the reversal progression from the fifth step of first row towards its first step, for its onward progression may adopt the format of West-South diagonal, which as well would be of three parts.
31. This way rows, columns and diagonal formats of 5 x 5 grid arrangement organization of transcendental code values for 5 x 5 Verga consonants shall be structuring a mathematical format in terms of which the linear, spatial and solid orders of 3-space mathematics science and technology system can be built and can be worked out.
32. The students of the Discipline of 3-space Vedic Mathematics science and technology shall comprehend well the above formats and features of 5 x 5 grid/matrix formats of 5 x 5 Verga consonants of Devnagri alphabet.
33. One shall sit comfortably and permit the transcending mind to be face to face with above features of the structural format setup of Verga consonants.
34. It is with proper comprehension and thorough appreciation of these structural features of arrangement of organization of transcendental code value 5 x 5 Verga consonants that one can have proper insight and proper vision of these structural features.
35. Now one shall have a pause and permit the transcending mind to be face to face with the transcendence at the centres of the grid/Matrix of first face of the surface to second face of the surface.
36. Here It would be relevant to note that 5 x 5 grid, that way permits super imposition of 4 x 4 grid, along both faces of the surface.
37. One may further have a pause here and take note that the corner points of 4 x 4 grid formats for both faces of the surface, shall be at the centres of the external 5 x 5 grids along both faces of the surface.
38. One may have a pause here and take note that this transcendence phenomenon deserves to be chased for proper comprehension.
39. The transcendence, as such is at the centre of the grid zone.
40. The transcendence takes form first face to the second face of the grid zone.
41. The transcendence, as such is through the surface domain of the grid zone.
42. One may have a pause here and take note that this surface domain with a pair of faces, in a way as comparison to area of the faces of the surface, is

the 'Volume' responsible for manifestation of surface as a surface of a pair of faces.

43. One may further have a pause here and take note that, this in a way, is a transition from 5×5 format of grid zone face area to $5 \times 5 \times 5$ grid surface domain volume.
44. One may have a pause here and permit the transcending mind to be face to face with this transcendence phenomena at the centre of the grid zone and there being a reach from centre of the first face to the centre of the second face.
45. One may further have a pause here and take note that $NVF (\text{Area}) = 25 = 5 \times 5$ and $NVF (\text{Transcendence}) = 125 = 5 \times 5 \times 5$.
46. It would further be very blissful to be face to face with NVF equations:
- i. $NVF (\text{square}) = 81 = 31 + 50 = NVF (\text{Void Cube})$.
 - ii. $NVF (\text{Void}) = 50 = 22 + 15 + 9 + 4$
47. It would further be very blissful to take note that $22 = 7+6+5+4$.
48. Further $15 = 22-7$.
49. Still further $9 = 22 - 7 - 6$.
50. Still further $4 = 22-7-6-5$.
51. Still further $0 = 22-7-6-5-4$.
52. One may have a pause here and take note that artifices quadruple (4,5,6,7) is parallel to the fourfold manifestation layer (4,5,6,7) of Hyper cubes-6 which accepts 4-space in the role of dimension, 5-space in the role of boundary, 6-space in the role of domain and 7-space in the role of origin.
53. It would further be very blissful to note that the summation value of quadruple artifices (4,5,6,7) is $4+5+6+7=22$, which is parallel to NVF (Go) which further is parallel to the format and features of hyper cube-6.
54. With it the transcendence at the centres of grid zones of first face of the surface with a reach up-till centre of the grid zone of the second face through the void/zero value state for the square as solid/cube deserves to be comprehended well .
55. One shall sit comfortably and permit the transcending mind to be face to face with this transcendence phenomena and inter relationship of the format and features of square and cube.
56. It would be relevant to note that
- $$NVF (\text{Mathematics}) = NVF (\text{Square}) + NVF (\text{Cube})$$
- $$NVF (\text{Mathematics}) = NVF (\text{Cube}) + NVF (\text{Void}) + NVF (\text{Cube}).$$

57. One may have a pause here and take note that the surface within volume shall be splitting the volume into parts while surface itself to remain as zero volume format.
58. One may further have a pause and take note that NVF (वर्ग) = TCV (घन)=14 which accepts organization as $14 = 2 + 3 + 4 + 5$ parallel to quadruple artifices (2,3,4,5) which further is parallel to fourfold manifestation layer constituting a manifestation format for creations within creator's space (4-space).
59. One may further have a pause here and take note that the text of Ganita sutras and Up-sutras is having formulation (वर्ग) as its constituent.
60. One may further have a pause and take note that TCV (अन्त)=14.
61. Still further It would be relevant to note that NVF (In-credible)=81 = NVF (Square).
62. With it (वर्ग)/square becomes the basic creations format, which deserves to be chased as a manifestation format for whole range of hyper cubes.
63. One may further have a pause here and take note that Hyper cube-3 accepts a spatial boundary of six components.
64. One surface plate of cube is a setup of 9 geometric components namely (4 corner points, 4 boundary lines, 1 surface).
65. Now when, pair of adjoining surface plates is taken up as an integrated geometric setup, then it would emerge that, the pair of surface plates would be having one common edge together with its pair of end points (Corner points).
66. That way the synthetic/integrated setup of a pair of adjoining surface plates shall be constituting a structural geometric setup of $(9+6) = 15$ geometric components.
67. One may have a pause here and take note that in the above setup first surface plate is contributed 9 geometric components while the second surface plate contributing only 6 geometric components.
68. Now if a set-of three adjoining surface plates are taken up as integrated/synthetic geometric setup, then it would be seen that it is a geometric setup of $9+6+4=19$ geometric components in all.
69. One may have a pause here and be face to face with such contributions by first, second and third adjoining surface plates as triple contribution values (9,6,4).
70. One shall sit comfortably and be face to face with the phenomena that when these values triple is put along the circular format, then it shall be leading to one of the values being '496', which is a perfect number, to be

precise, '496' is the third perfect number with proper devisors being (1,2,4,8,16,31,62,124,248) .

71. One may have a pause here and take note that first perfect number (6) has three proper devisors manly (1,2,3).
72. The second perfect number (28) has five proper devisors (1,2,4,7,14).
73. One may further have a pause here and take note that first perfect number (6) has three proper devisors, second perfect number (28) has five proper devisors and third perfect number (496) has nine proper devisors.
74. One may have a pause here and take note that artifices triple (3,5,9) have the common feature as that, of the 9 numerals range, numeral 5 is of middle placement.
75. Further of the 5 numerals ranges, number 3 is of middle placement.
76. Still further, artifices triple, accepts re-organization as [(3,3), (3 x 3)].
77. It is this feature which brings syntheses value of pair of solid dimensions between linear and spatial formats (3^1 , 3^2) deserves to be comprehended well.
78. This feature further deserves to be comprehended and appreciated in the background of artifice 5 being parallel to numeral five which is of middle placement amongst the range of nine numerals of 10 placement values system.
79. One may have a pause here and take note that when two cubes are synthesized with one of the surface plates being common, it shall be making the synthetic setup only of $(31+31-9) = 53$, components which is parallel to NVF (Axis) = 53.
80. Now if 4 cubes are synthesized as a pair of rows of paired cubes then the total geometric components of the setup would be $(31+22+22+16)= 91$, which is parallel to NVF (Mirror)=91.
81. Still further the synthetic setup of 8 cubes as a pair of storeys of 4 cubes each arranged as a pair of adjoining of paired cubes leads to a structural setup of total components $[(31+22)+(22+16)+(22+16)+(16+12)]=157$.
82. One may have a pause here and take note that if the contribution of eight three dimensional frames are excluded there from, the remaining structural setup value of synthetic setup of eight cubes would be of $(157-4x8)=125=5x5x5$ components which is parallel to NVF (Transcendence)=125.
83. Still further, if the value of 4 components of central 3 dimensional frame for coordination of eight cubes as eight sub cubes of synthetic cube are included then it would make out the total components to be $157 + 4 =$

161, which shall be permitting reach at the middle/centre of the organization from either end along the synthetic measuring rod of 6-space.

...to be continued

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