Sri – Om
VEDIC MATHEMATICS AWARENESS YEAR

'Credit goes to Swami Bharti Krshna Tirtha Ji Maharaj to focus the attention of present generation about the values of Ganita Sutras (mental Mathematics Sutras)'

All are invited to join Awareness program

All are warmly invited to join the awareness program of Vedic Mathematics. All teachers, parents and students are invited to Learn and Teach Vedic Mathematics for proper intelligence growth at School.

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- Organizers

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Vedic mathematics, Science & Technology
UNIVERSITY CONCEPT

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XII
21 Branches of Rigved Samhita

[(Source Theme)   Organization format of Sakala Rigved Samhita

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1. Sakala Rigved Samhita is the source scripture.
2. The organization formats and systems of this source scripture will help reach at all the 21 branches of Rigved Samhita.
3. One may have a pause here and take note that value 4 for 4-space / 4-space as domain and value 8 for 8 boundary components of 4-space play the role and make transcendental (5-space as boundary of 6-space) boundary being of 4 + 8 = 12 components.
4. One may further have a pause here and take note that the artifice value $(5+3) = 8$ is parallel to the transcendental (5-space) domain superimposed by solid order (3-space) and further the value $4 + 6 = 10$ is parallel to self referral space (6-space) super imposed by creative order (4-space and stiil further the artifice value $5 + 7 = 12$ is parallel to a unity state (7-space) being super imposed with the transcendental (5-space) order.
5. These values deserves to be chased fully comprehended to have a proper insight about these structural features playing their role for transition from 5-space to 6-space as transition from hyper cube format 5 to hyper cube format 6.

6. Creative (4-space) boundary coverage for the transcendental (5-space) boundary of self referral (6-space) domain is of value 12 x 10 = 120, which because of the spatial order permits split as 120 = 60 + 60 and the organization of value 7 = 1 +2, 2 is of value 12 x 10 = 120, which because of the spatial order permits split as 120 = 60 + 60 and the organization of value 7 = 1 +2, 2 x 4, 3 x 6, 4 x 8 brings us face to face with the format of transition from macro state

7. Vibhuti yoga chapter 10 of Shrimad Bhagwad Geeta preserves the expressions for the features of 6-space in terms of which one may have deep insight about the existence phenomenon of self referral (6-space) domain of our solar universe as well as of existence phenomenon within human frame as Pursha format

8. For understanding and chase of formats of self referral (6-space) domain as to its pure and applied values, one may fully comprehend and to completely imbibe the format and features of organization of 18 Disciplines of Yoga of 18 chapters of Srimd Bhagwad Geeta along the Divye Ganga flow path as seven stream through the Bindu Saroaver of sole syllable Om.

9. The chase format of organization of text of chapter – 1 'Vishad Yoga' of Shrimad bhagwad Geeta is of following features as flow chart of 47 shalokas range:

10.
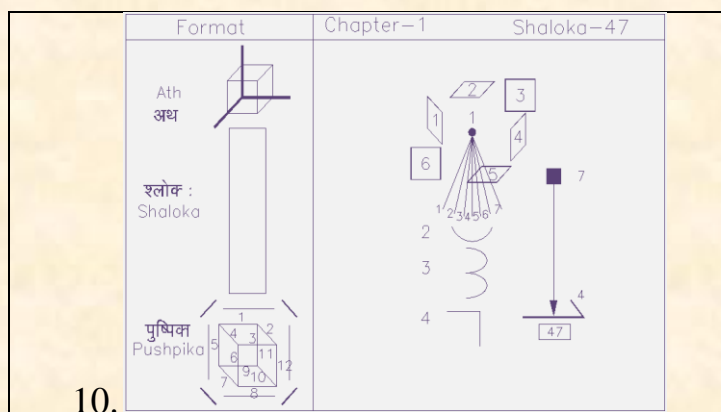
11. Flow charts of chapter 2 to 18 of Shrimad Bhagwad Geeta.

12. Pushpikas of Disciplines of Yoga are the reservoirs of the transcendental (5-space) values which manifest as 11th Geometry of 5-space as format of 11th version of hyper cube 5.

13. The transition for the 11th Geometry of 5-space for its role as transcendental (5-space) boundary of 12 components of self referral (6-space) domain, that way makes 12 x 2 = 24 number of 11th days of the months of a year.

14. The 13th Geometry of 6-space and parallel to it the 13th version of hyper cube 6 manifests 13th month as additional month of the year, which that way contributes a pair of additional 11th days of the month which together with 24 such days, makes the range of 11th days of months being 26 in number.

15. One may have a pause here and take note that the 12 edged cube manifests additional edge, namely 13th edge for the cube and the 13 edge cube becomes the hyper cube 4 of format and features of values swapping domain of hyper cube 4 along one of the pair of axes of the spatial dimension of 4-space.

16. Along both the axes of the spatial dimension of 4-space, the emerging a pair of 13 edged cubes shall be constituting a format and features of values of artifice 26.

17. The set up of the spatial dimensional frame of 4 dimensions of 4-space as such shall be leading to a format and features of values of artifice 26 x 4 = 104 of the creative order (4-space in the role of dimension of self referral (6-space) domain) and there by artifice 26 of four quarters each shall be the measures range / elements range of our solar universe, which becomes the measures alphabet of 26 letters parallel to 26 measures

18. The measuring rod of 6-space synthesized by hyper cube 1 to 6 and parallel to it artifice 21 as summation value of artifices 1, 2, 3, 4, 5, 6 and the organization $21 = 1+2+3+4+5+6$, as such manifests the format for 26 branches of Rigved, of which the first branch is to be of the format and features of the sole axis of 1-space being (-1) space and as such of value '-1'

19. The second branch of Rigved Samhita is to avail the first axis of the spatial dimension being (0) space in the role of dimension of 2-space and as such of value (0)

20. The third branch of Rigved Samhita is to avail the second axis of the spatial dimension being (0) space in the role of dimension of 2-space and as such of value (0)

21. The fourth branch of Rigved Samhita is to avail the first axis of the solid dimension being (1) space in the role of dimension of 3-space and as such of value (1)

22. The fifth branch of Rigved Samhita is to avail the second axis of the solid dimension being (1) space in the role of dimension of 3-space and as such of value (1)

23. The sixth branch of Rigved Samhita is to avail the third axis of the solid dimension being (1) space in the role of dimension of 3-space and as such of value (1)

24. The seventh branch of Rigved Samhita is to avail the first axis of the creative (4-space) dimension being (2) space in the role of dimension of 4-space and as such of value (2)

25. The eighth branch of Rigved Samhita is to avail the second axis of the creative (4-space) dimension being (2) space in the role of dimension of 4-space and as such of value (2)

26. The ninth branch of Rigved Samhita is to avail the third axis of the creative (4-space) dimension being (2) space in the role of dimension of 4-space and as such of value (2)

27. The tenth branch of Rigved Samhita is to avail the fourth axis of the creative (4-space) dimension being (2) space in the role of dimension of 4-space and as such of value (2)

28. The eleventh branch of Rigved Samhita is to avail the first axis of the transcendental (5-space) dimension being (3) space in the role of dimension of 5-space and as such of value (3)

29. The twelfth branch of Rigved Samhita is to avail the second axis of the transcendental (5-space) dimension being (3) space in the role of dimension of 5-space and as such of value (3)

30. The thirteenth branch of Rigved Samhita is to avail the third axis of the transcendental (5-space) dimension being (3) space in the role of dimension of 5-space and as such of value (3)

31. The fourteenth branch of Rigved Samhita is to avail the fourth axis of the transcendental (5-space) dimension being (3) space in the role of dimension of 5-space and as such of value (3)

32. The fifteenth branch of Rigved Samhita is to avail the fifth axis of the transcendental (5-space) dimension being (3) space in the role of dimension of 5-space and as such of value (3)

33. The Sixteenth branch of Rigved Samhita is to avail the first axis of the self referral (6-space) dimension being (4) space in the role of dimension of 6-space and as such of value (4)

34. The Seventeenth branch of Rigved Samhita is to avail the second

35. The eighteenth branch of Rigved Samhita is to avail the third axis

36. The ninetieth branch of Rigved Samhita is to avail the fourth axis

37. The twentieth branch of Rigved Samhita is to avail the fifth axis.

38. The twenty first branch of Rigved Samhita is to avail the sixth axis.

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30-12-2014   Dr. S. K. Kapoor, *(Ved Ratan)*

VMS & T Project
School Text Books
(Class IX, X, XI & XII)
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VMS & T Text Book Class IX
(3-space)

Second Semester

Introductory

1. During one semester we have learnt about 3-space in terms of cube as its representative regular body.
2. This study brings to focus the role of a three dimensional frame settling the manifestation format of cube in particular and 3-space bodies (solids) as set ups of linear dimensional order.
3. The manifestation format, as such is of four folds being designated as dimension fold, boundary fold, domain fold and origin fold.
4. Further it also comes to pointed attention that dimension fold of 3-space bodies is of linear order, which in other worlds would mean that 1-space plays the role of dimension.
5. It may be taken as that 1-space content manifests and plays the role of dimension of solids / 3-space bodies, in general at cube in particular.
6. Further as that solids (3-space bodies in general) and cube and sphere in particular are accepting spatial boundary, i.e., 2-space plays the role of boundary fold of 3-space bodies. In other worlds 2-space content manifests and plays the role of boundary of 3-space bodies.
7. Still further, 3-space content manifests as domain folds of solids / 3-space bodies in general and cube and sphere in particular.
8. 4-space content manifests and plays the role of origin of 3-space bodies.
9. This manifestation format of four folds is designated and is known as hyper cubes format.
10. The manifestation of 3-space content as domain fold as along this format makes solids in general and cube in particular as of hyper cube 3 format.
11. Such manifestation brings to prime role a three dimensional frame.
12. This three dimensional frame is a set up of four components, namely, three linear axes (dimensions and fourth origin).
13. Of these three dimensions (axes, every single dimension, axis) provides a format for manifestation of intervals.
14. Further, each pair of dimensions provide format for manifestation of squares.

15. And all the three dimensions (axes) together provide a format for manifestation of domain folds of solids in general and cube and sphere in particular.
16. Each dimension axes is of infinite length.
17. These three dimensions (axes) are synthesized with origin as their common joint.
18. It is this feature of the common joint (origin), which splits each dimension (axes) into a pair of parts, called half dimensions (axes).
19. Pair of axes split as quadruple half dimensions and synthesize a two dimensional frame.
20. The split of three dimensions as a set of six half dimensions permit re-organization as a pair of three dimensional frames of half dimensions.
21. This re-organization makes the set up for three dimensional frame as of seven components, namely a set up of six half dimensions and seventh origin.
22. One of the feature of this organization comes to be that origin accepts a middle position.
23. During first semester we have also learnt that cube accepts seven versions.
24. Of these seven versions of cube, the middle placement version is of unique features, as much as that it has its three surface plates intact and three surface plates being absent.
25. It is this split of the spatial boundary of cube into a pair of halves of three surface plates each, which brings to focus the role of spatial dimensional order of 4-space at origin of three dimensional frame playing its role.
26. During this semester we shall be learning as to how the placement of a three dimensional frame with super imposition of its origin upon center of the cube shall be as a starting point, would sequentially lead to the manifestation of the organization format of 16 Ganita Sutras and 13 Ganita Upsutras with sole syllable Om (ॐ) as the starting point and its synonym Parnava प्रणव as its end reach and thereby there being a full coverage range of artifice value 31 parallel to 31 components range of the set up of cube.
27. During this semester we shall be learning lessons no 7 to 12:
    Chapter 7 Hyper cube 3 format
    Chapter 8 Zero signature geometry format as the starting point for Ganita
        Sutras format
    Chapter 9 Three place value system
    Chapter 10 Different roles of 3-space
    Chapter 11 Cube and Sphere
    Chapter 12 Triloki and Trimurti

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Lesson – 07
Hyper cube 3 format

1. Ganita Sutras (and Upsutras) organization helps settle hyper cubes format in general and hyper cube 3 format in particular.
2. Simultaneously hyper cubes format in general and hyper cube 3 format in particular helps settle the organization format of Ganita Sutras (and Upsutras).
3. The Ganita Sutras and (Ganita Upsutras) constitute a complete vedic scripture.
4. To be a complete Vedic scripture means that the scripture accepts sole syllable Om (ॐ) as its source reservoir and its synonym *Parnava* प्रणव as its End Reach
5. Ganita Sutras text, as such presumes the existence and definition of one and starts unfolding organization format with Ganita Sutra 1 itself.
6. This presumption of Existence and definition of '1' is there because of availability of these source values in the whole some formulation 'ॐ', which is of four components designated and known as 'bindu sarovar, ardh matra, tripundam and Swastik pada and same is parallel to the format of idol of Lord Brahma, creator the supreme and that way is still further parallel to the format of hyper cube 4 in particular and hyper cubes in general.
7. With it, the chase of Ganita Sutra 1 with its working rule 'one more than before', shall be providing us 'sequential order', in general and 'linear order' in particular
8. One may have a pause here and take note that this working rule, in its generality and in its special and particular applications shall be bringing us face to face with :
   (i)   1, 2, 3, 4, 5, ---
   (ii)   First, Second, Third, Fourth, Fifth, ---
   (iii)   1, (1, 2), (1, 2, 3) , (1, 2, 3, 4) , ---
   (iv)   First Degree, Second degree, third degree, fourth degree, ---
   (v)   Interval, square, cube, hyper cube 4, hyper cube 5, ---
   (vi)   1-space, 2-space, 3-space, 4-space, ----
   (vii)   1-space content, 2-space content, 3-space content, 4-space content, ---
   (viii)   Hyper cube 1, Hyper cube 2, Hyper cube 3, Hyper cube 4, ---
   (ix) N^0, N^1, N^2, N^3 , ----
   (x)   One dimensional frame, two dimensional frame, three dimensional frame, four dimensional frame, ---
   (xi)   1-space as origin of 0-space, 2-space as origin of 1-space, 3-space as origin of 2-space, 4-space as origin of 3-space, ---
   (xii)   0-space as boundary of 1-space, 1-space as boundary of 2-space, 2-space as boundary of 3-space, 3-space as boundary of 4-space, ---
   (xiii)   1-space boundary of 2 components, 2-space boundary of 4 components, 3-space boundary of 6 components, 4-space boundary of 8 components,---

(xiv) Like that very large number of illustrative set ups can be cited, like matrix format 1, 1 x 1, 1x 1 x 1, 1x 1 x 1 x 1, ----; 1 x 1, 2 x 2, 3 x3, 4 x 4, 5 x 5 and so on; 1^3, 2^3, 3^3, 4^3 and so on

9. Origin of 3-space at middle placement, origin of 4-space at middle placement, origin of 5-space at middle placement and parallel to it origin of three dimensional frame at middle placement, origin of 4 dimensional frame at middle placement, origin of five dimensional frame at middle placement and so on shall be leading us to different features of the organization format of Ganita Sutras.

10. The middle signature geometry of 3-space, the middle signature geometry of 4-space, middle signature geometry of 5-space and so on shall as starting point for Ganita Sutra 1 would be leading us to different pure and applied values of Ganita Sutras

11. Parallel to it, middle version i.e. fourth version of seven versions of cube as a starting point shall be providing us pure and applied values of Ganita Sutras as pure and applied values of the Discipline of VMS & T of 3-space.

12. Such start shall be sequentially leading us to:
    (i)   -1, 0, 1
    (ii)   -2, -1, 0, 1, 2
    (iii)   -3, -2, -1, 0, 1, 2, 3
    (iv)   -4, -3, -2, -1, 0, 1, 2, 3, 4
    (v)   -5, -4, -3, -2, -1, 0, 1, 2, 3, 4, 5
    (vi)   -6, -5, -4, -3, -2, -1, 0, 1, 2, 3, 4, 5, 6
    (vii)   -7, -6, -5, -4, -3, -2, -1, 0, 1, 2, 3, 4, 5, 6, 7

13. This way seven geometries range of 3-space / seven versions range of cube along both the dimensions of spatial order (2-space in the role of dimension of 4-space) with seat at origin of three dimensional frame, shall be firstly providing exhaustive coverage for Ganita Sutras 1 to 14) and 13 Ganita Upsutras of placements of gaps in between Ganita Sutras 1 to 14) and ahead there to be the format for pair of Ganita Sutras namely Ganita Sutras 15 and 16 to be of the format of sutras 1 and 2 respectively of Ashtadhey.

14. These features deserve to be visited and revisited and to be continue till their full comprehension

15. It is with comprehension and appreciation of these features that their values can be imbibed and insight can be had about their virtues.

16. It is with this imbibing and insight that the format working rule of Ganita Sutras can be availed for progressive evaluation of intelligence field within young minds.

17. A step ahead consciousness field and emerging enlightenment as well can be made lively within the intelligence field.

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