

Vedic Mathematics, Science & Technology

FOUNDATION COURSE



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Section – 1

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OPENING WORDS

Vedic Mathematics, Science & Technology Discipline is at the center of applied values of Ancient Wisdom with Vedas at its core. This Discipline avails the format of the path of transcendental carriers coordinating whole of the Earth to Sun range. This as such becomes the inner organization of Sunlight. This course aims to reach at the foundation of its organization features.

Sunlight, inner organization of Sunlight, path of transcendental carriers of Sunlight, Earth to Sun coverage range, are the keywords and phrases with which the chase is to begin to reach at the set of features and values for settlement of the format of 'foundation' during this course of the Discipline of Vedic mathematics, Science & Technology accepting coordination of whole range of Earth to Sun in terms of and along the path of transcendental carriers of Sunlight.

Essentially it becomes the aspect of transcendence through the origin fold of manifestation layers within spatial order creator's space. With it the initiation focus of the present course, essentially is to be upon the solid order transcendental seat within creator's space. That way the first chase step of the present (foundation course) of the Discipline of Vedic mathematics, Science & Technology, naturally is to be, in the form of the steps of installation of Shiv Lingum within creator's space.

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Section – 1
Installation of Shiv Lingum within creator's space



Week – 01 Preliminary chase steps
(01-04-2014 to 07-04-2014)

Chase Step 01
Technical terms

1. Source insight scriptural quote

Scriptural quote

ज्योति मध्यः त्रिलोकी मनोरमम् ।

Roman script

(Jyotir Madey Triloki manarmum)

Simple English rendering

Triloki / 3-space , cube / hyper cube 3 manifest (s) as per the values of the flow format of Sun light

Emerging features

Two features which emerge basic features for this chase crystallized as :

- a. Triloki / 3-space , cube / hyper cube 3 manifest (s) as per the values of the flow format of Sun light (Jyotir Madey Triloki manarmum) ज्योति मध्यः त्रिलोकी मनोरमम् ।
- b. Earth to Sun range coverage is attainable in terms of 26 meters (chandas) of four quarters each.

2. Triloki

Simple English rendering for Triloki comes to be 3-spaces to begin with, it be taken up as amalgamated trio of spaces, namely (1-space, 2-space and 3-space). Further in the context, it be taken as full expression for single axis, pair of axes and all the three axes of three dimensional frame. Cube (as hyper cube 3) be accepted as the format of representative regular body of Triloki.

3. Cube as hyper cube 3

Within creator's space, it would be of the features of a four fold manifestation layers with 1-space in the role of dimension, 2-space in the role of boundary, 3-space in the role of domain and 4-space in the role of origin. The focus here may be upon 3-space content expressing itself and manifesting as domain fold of hyper cube 3.

4. Creator's space

4-space is designated as creator's space. It is a spatial order space, i.e. 2-space plays the role of dimension of 4-space.

5. Creator

Lord Brahma, four head lord, is designated as creator.

6. Hyper cube 4

Hyper cube 4 is a four fold manifestation layer with 2-space in the role of dimension, 3-space in the role of boundary, 4-space in the role of domain and 5-space in the role of origin.

4-space (content) expresses itself and plays the role of domain fold of hyper cube 4.

7. Idol of Lord Brahma

Scriptures describe idol of Lord Brahma as a lotus seat of eight petals over which lord Brahma, the four head lord with pair of eyes in each head sits gracefully and meditates within cavity of his own heart where is the transcendental seat of the transcendental lord. This is of the features parallel to the features of the format of hyper cube 4. This is the creation format. Whole range of creations manifest along this format.

8. Transcendental domain

5-space is designated as Transcendental domain. It is a solid order space, i.e. 3-space plays the role of dimension of 5-space

9. Transcendental Lord

Lord Shiv, 5-head lord with three eyes in each head is designated as Transcendental Lord.

10. Hyper cube 5

Hyper cube 5 is a four fold manifestation layer with 3-space in the role of dimension, 4-space in the role of boundary, 5-space in the role of domain and 6-space in the role of origin.

5-space (content) expresses itself and plays the role of domain fold of hyper cube 5.

11. Idol of Lord Shiv

The idol of Lord Shiv, five head transcendental lord with three eyes in each head is of the features parallel to the format of hyper cube 5 . This idol is designated as Shiv Lingum. The transcendental seat within cavity of heart of Lord Brahma, is of the features of the idol of transcendental lord.

12. Self referral domain

6-space domain is designated as self referral domain

13. Self referral lord

Lord Vishnu, 6-head lord is the overlord of self referral domains.

Sun is one of the self referral domain.

14. 26 elements

Vedic systems process out 26 element coverage for self referral domains. Parallel to these, there are 26 meters (chandras).. As creator's space (4-space) plays the role of dimension for self referral domains, as such, The referred 26 meters are of four quarters each.

15. Virath Sawroop of Lord Vishnu

Lord Vishnu, six head self referral lord accepts its manifested values within creator's space as of the format of hyper cube 6 whose 13 version and parallel to it the range of 13 geometries of 6-space is designated as the Virath Sawroop of Lord Vishnu.

16.Unity state

Vedic systems accept unity state as of the format of hyper cube 7. These unity state domains are of transcendental dimensional order, as much as that 5-space plays the role of dimension, here . Pole star play the role of unity state origin of our solar universe.

17.Hyper cube 0 is a four fold manifestation layers with (-2) space playing the role of dimension, (-1) space playing the role of boundary, 0-space playing the role of domain and 1-space playing the role of origin.

18.One may have a pause here and permit the transcending mind to chase (-2) space and (+2) space manifesting as pair of faces of surface.

19.Likewise (-1) space and +1 space may be chased as pair of orientation of an interval.

20.Further, -3 space and +3 space may be viewed as expression of dimensional set up within three dimensional frame of half dimensions, as a split of a three dimensional frame of full dimensions.

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Chase Step 02 Hyper cubes 0 to 6

0	1	2	3	4	5	6
●	—	□	⊠	⊡	⊣	(↔)
Hyper cubes 0, 1, 2, 3, 4, 5, 6						

1. The Discipline of Vedic Mathematics, Science & Technology chases its values along the format of hyper cubes 0 to 6 as four fold manifestation layers within creator's space (4-space).
2. Hyper cube 4 with 4-space content as its domain fold, itself is a four fold manifestation layer of which 2-space content lump plays the role of dimension fold, 3-space content lump plays the role of boundary fold, 4-space content lump plays the role of domain fold and 5-space content lump plays the role of origin fold.

3. With it, the foundation of Vedic Mathematics, Science & Technology systems, as such is of the format of hyper cube 4, and that being so, the fixation of the origin of 4-space becomes the basic achievement of the Vedic Mathematics, Science & Technology systems.
4. This achievement of Vedic Mathematics, Science & Technology systems manifests as installation of Shiv Lingum within creator's space.
5. The creator's space (4-space) is presided by Lord Brahma, four head lord, creator the supreme, who sits gracefully on a lotus seat of eight petals. This lotus seat of eight petals is designated as the mystic symbol of spatial order within linear order set up of our physical 3-space world.
6. The installation of Shiv Lingum within creator's space is of the features of fixation of the origin of 2-space (surfaces) which as spatial order (2-space in the role of dimension), fix the origin of creator space (4-space) being of spatial order. Sathapatya ved, the upved of Atharavved accepts it as laying of foundation stone.
7. This infact is of the features of having solid dimensional order (of transcendental domain / 5-space as domain fold of hypercube 5).
8. Symbolically it can be represented as the attainment of the features and values of 5-space playing the role of origin of 4-space permitting depiction as under :



9. As understanding of this step is to go a long way for providing desirable degree of comprehension of the whole process and its pure and applied values, as such here during the following chase steps, its different aspects would be revisited to ensure basic insight about the overall view of its conceptual format.

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Chase Step 03
Geometric ranges of 0 to 6 spaces

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1. Hyper cubes accept domain boundary ratio as per the formulation $A_n : 2n B^{n-1}$.
2. This formulation focuses upon the split of boundary of hyper cube n into 2n parts.
3. This features leads to (2n+1) versions of hyper cube n, corresponding to the presence / absence of the boundary components.
4. Hyper cube 3 / cube, as such accept 7 versions and corresponding to them 3-space has 7 geometries range.
5. Likewise, hyper cube 4 shall be accepting 9 versions and corresponding to them 2-space shall be having 9 geometries range.
6. In a sequence, hyper cube 5 would be of 11 versions and 5-space to admit 11 geometries range.
7. One may have a pause here and take note that the foundation format as a set up of 4-space with 5-space as its origin shall be of the features of, firstly because of 9 geometries range of 4-space and secondly because of 11 geometries range of 5-space.
8. One may further have a pause here and take note that the artifices pair (9, 11) shall be leading us to 9 x 11 matrix format.
9. One shall may further have a pause here and take note that 9 x 11 matrix format shall be accommodating all the 99 double digit numbers of ten place value system.
10. It would be blissful to be through the following organization of 99 double digit numbers of 10 place value system organized as 9 column and 11 rows

Table of ten Place value system

01	02	03	04	05	06	07	08	09
10	11	12	13	14	15	16	17	18
19	20	21	22	23	24	25	26	27
28	29	30	31	32	33	34	35	36
37	38	39	40	41	42	43	44	45
46	47	48	49	50	51	52	53	54
55	56	57	58	59	60	61	62	63

64	65	66	67	68	69	70	71	72
73	74	75	76	77	78	79	80	81
82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99

11. One may further have a pause here and take note that, parallel to above, in general as $n + 1$ space plays the role of origin of n -space and as n -space accepts $2n+1$ geometries range and $n + 1$ accepts $2n + 3$ geometries range, which together shall be leading to format and features of whole range of double digit numbers of $(n+ 2)$ place value system permitting organization as $2n+ 1$ columns and $2n + 3$ rows.
12. It would be a blissful exercise to comprehend the organization of double digit numbers of different place values and corresponding matrix formats parallel to geometries ranges of domain folds and origin folds of hyper cubes.
13. Illustratively, the following tabulations of respective place value systems may help have an insight about the organization features.

Table of nine Place value system

01	02	03	04	05	06	07	08	
10	11	12	13	14	15	16	17	
18	19	20	21	22	23	24	25	
27	28	29	30	31	32	33	34	
36	37	38	39	40	41	42	43	
45	46	47	48	49	50	51	52	
54	55	56	57	58	59	60	61	
63	64	65	66	67	68	69	70	
72	73	74	75	76	77	78	79	
81	82	83	84	85	86	87	88	100

Table of eight Place value system

01	02	03	04	05	06	07	
10	11	12	13	14	15	16	
17	18	19	20	21	22	23	
26	27	28	29	30	31	32	
35	36	37	38	39	40	41	
44	45	46	47	48	49	50	
53	54	55	56	57	58	59	
62	63	64	65	66	67	68	

Table of seven Place value system

01	02	03	04	05	06	
10	11	12	13	14	15	
16	20	21	22	23	24	
25	26	30	31	32	33	
34	35	36	40	41	42	
43	44	45	46	50	51	
52	53	54	55	56	60	
61	62	63	64	65	66	100

Table of six Place value system

01	02	03	04	05	
10	11	12	13	14	
15	20	21	22	23	
24	25	30	31	32	
33	34	35	40	41	
42	43	44	45	50	
51	52	53	54	55	100

Table of five Place value system

01	02	03	04	
10	11	12	13	
14	20	21	22	
23	24	30	31	
32	33	34	40	
41	42	43	44	100

Table of four Place value system

01	02	03	
10	11	12	
13	20	21	
22	23	30	
31	32	33	100

Table of three Place value system

01 02
 10 11
 12 20 100

Table of two Place value system

01
 10
 11 100

Table of one Place value system

Table of one place value system numbers from 1 to $(1-1) (1+1)+1$ i.e. from 1 to 1 $1=10$	On ten place value system number 1 $=01$ $1 = 01$
First place 1 unit place 0	First place 0 unit place 1

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