# 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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Sh. Deepak Girdhar
- Organizers

## ISSUE NO 49

### News and Views
CAPIYATRIKONAGANITAM
Of Sri Nilabara Jha

## VMS & T Project
## School Text Books
## (Class IX, X, XI & XII)

1. Vedic mathematics, Science & Technology foundation values base is of the format of 'Triloki and Trimurti'.

2. This foundation values base is formatted in terms of representative regular bodies of 3, 4, 5 & 6 space.

3. With it, the focus of VMS & T text book for class 9 focuses upon the format of cube / hyper cube 3, representative regular body of 3-space manifesting as four fold manifestation layer with 3-space content manifesting and playing the role of domain fold of cube / hyper cube 3.

4. Likewise, in continuity VMS & T text book for class X focuses upon the format of hyper cube 4, representative regular body of 4-space manifesting as four fold manifestation layer with 4-space content manifesting and playing the role of domain fold of hyper cube 4.

5. The class XI text book of VMS & T is to focus upon the format of hyper cube 5, representative regular body of 5-space manifesting as four fold manifestation layer with 5-space content manifesting and playing the role of domain fold of hyper cube 5.

6. Ahead, the text book of class XII of VMS & T is to focus upon the format of hyper cube 6, representative regular body of 6-space manifesting as four fold manifestation layer with 6-space content manifesting and playing the role of domain fold of hyper cube 6.

7. With respect to hyper cube 3 and hyper cube 4, already a reasonable work has been done and the same is available on the website www.vedicganita.org and in my published books. As such here, attempt is being made to draw outline of the VMS & T text book for class 11.

8. Outline of chapter – 1 of VMS & T Text Book for Class 11 focusing upon 5-space is being drawn here under.

9. All are requested to share their knowledge and experience to finalize the VMS & T Textbook for class 11.

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05-12-2014                                                              Dr. S. K. Kapoor, *(Ved Ratan)*

# Chapter – 01
# NUMBER 5 AND 5-SPACE

## Processing Statement

Sankhiya Nishtha and Yoga Nishtha are two established processing formats of Vedic Systems. Both these formats are complementary and supplementary of each other and these also run parallel to each other. Sankhiya Nishtha presumes the existence of geometric formats and avails artifices of numbers. On the other hand Yoga Nishtha presumes the existence of artifices of numbers and avails geometric formats.

## Recapitulation

Let us recapitulate 3-space format of number 3 and number 3 format of 3-space. Further let us also recapitulate 4-space format of number 4 and number 4 format of 4-space. In continuity is to be chased number 5 along format of 5-space and 5-space itself is to be chased along the format of number 5.

## Space contents and manifested domains

Let us further recapitulate 'solids' as manifested domains of 3-space content, and hyper solid-4 as manifested domains of 4-space content. In continuity hyper solids - 5 being the manifested domain of 5-space content.

## Symbolic / figurative expressions

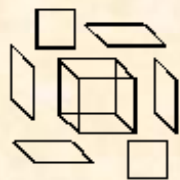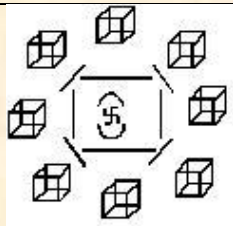| Space | Space body | Symbolic Expression |
|-------|-----------|---------------------|
| 3-space | Solid | ⊞ |
| 4-space | Hyper solid 4 | ⌑ |
| 5-space | Hyper solid 5 | ⑀ |

## Representative regular bodies

Let us further recapitulate that cube / hyper cube 3 is representative regular body of 3-space with 3-space content manifesting as domain fold of cube / hyper cube 3. Further that hyper cube 4 is representative regular body of 4-space with
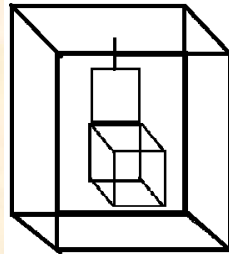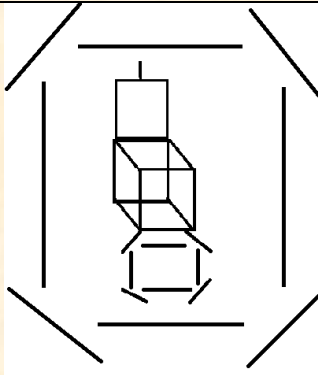
4-space content manifesting as domain fold of hyper cube 4. In continuity hyper cube 5 is the representative regular body of 5-space and 5-space content manifests as domain fold of hyper cube 5.

## Symbolic figurative expressions

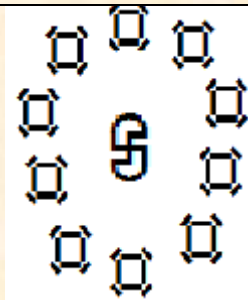| Space | Representative regular body | Symbolic Expression |
|-------|------------------------------|---------------------|
| 3-space | Cube / Hyper cube 3 |  |
| 4-space | Hyper cube 4 |  |
| 5-space | Hyper cube 5 |  |

## Versions of Hyper cubes 3, 4 and 5

Domain boundary ratio of hyper cubes 3, 4 and 5 accept the common formulation $A^n$: $2n\ B^{n-1}$, n = 3, 4, 5. As such cube / hyper cube 3, hyper cube 4 and hyper cube 5 accept 7, 9 and 11 versions respectively.

## Measuring rods of hyper cubes 3, 4 & 5

It may be recapitulated that domain fold of hyper cube 3 (⌗) accepts a measuring rod synthesized by 'interval, square and cube'. Further as that domain fold of hyper cube 4 (⌘) accepts a measuring rod synthesized by interval,

square, cube and hyper solid 4. In continuity domain fold of hyper cube 5 (卐) accepts a measuring rod synthesized by interval, square, cube, hyper solid 4 and hyper solid 5.

## Symbolic / Figurative expressions

| Space | Measuring rod |
|-------|----------------|
| 3-space |  |
| 4-space |  |

## Measuring rod of 5-space

The measuring rod of 5-space is a synthetic set up of interval, square, cube, hyper solid 4 and hyper solid 5.

## 11 versions of hyper cube 5

| Version | Symbolic expression |
|---------|---------------------|
| 1 |  |

| 2 |  | 7 |  |
|---|---|---|---|
| 3 |  | 8 |  |
| 4 |  | 9 |  |
| 5 |  | 10 |  |
| 6 |  | 11 |  |

Four fold manifestation layers

Let us further re-capitulate that hyper cube 3 is a set up of four fold manifestation layer with 1-space content manifesting and playing the role of dimension fold, 2-space content manifesting and playing the role of boundary fold, 3-space content manifesting and playing the role of domain fold and 4-space content manifesting and playing the role of origin fold.

Hyper cube 4 as well is a set up of four fold manifestation layer with 2-space content manifesting and playing the role of dimension fold, 3-space content manifesting and playing the role of boundary fold, 4-space content manifesting and playing the role of domain fold and 5-space content manifesting and playing the role of origin fold.

In continuity hyper cube 5 is as set up of four fold manifestation layer with 3-space content manifesting and playing the role of dimension fold, 4-space content manifesting and playing the role of boundary fold, 5-space content manifesting and playing the role of domain fold and 6-space content manifesting and playing the role of origin fold.

## News and Views
## CAPIYATRIKONAGANITAM
## Of Sri Nilabara Jha

CAPIYATRIKONAGANITAM
(Spherical Trigonometry)

This book has its importance from many points of view, firstly as to the knowledge of spherical trigonometry being availed as mathematical tool and secondly as to the potentialities of the Sanskrit alphabet being of mathematical values format.

**5-12-2014**                - Organizers

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