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.

Dr. S. K. Kapoor
Sh. Rakesh Bhatia
Sh. Bhim Sein Khanna
Sh. Deepak Girdhar
- Organizers

ISSUE NO 67

Vedic mathematics, Science & Technology
UNIVERSITY CONCEPT
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I
OPENING STATEMENT
[(Source Theme)   **To chase parallel to jyoti flow within rays of the Sun**]
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II
EMERGENCE AND DISSOLUTION OF TRILOKI (3, 4, 5, 6)
(Source Theme)   **Triloki is of transcendental (5-space) state within Jyoti**
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III
Existence within Human Frame
(Source Theme)   **Pursha, Sun, Atman, Vishnu are of parallel formats**
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IV
Sankhiya Nishtha and Yoga Nishtha
(Source Theme)   **Parallel are the formats of artifices of numbers and Dimensional frames**
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V
Interlinking of classical alphabets with Sanskrit alphabet
(Source Theme)   **Sunlight base of Devnagri alphabet**
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VI   Divine Song: Srimad Bhagwad Geeta
(Source Theme)   **Essence is 'Essence of Essence'**
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VII   Challenge of re-construction of all the branches of Vedas
(Source Theme)   **Sakala Rigved Samhita is the source scripture**
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VIII   Riks (रिक्), Yajurs (यजुः), Samas (साम) and Atharavs (अर्थव)
(Source Theme)   **One unfolds many folds**
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IX   Creator's space (4-space)
(Source Theme)   **Lord Brahma four head lord is in the Creator the Supreme**
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1. Vedic Systems have blissfully glimpsed creator's space (4-space) presided by Lord Brahma, the four head lord.


2. Vedic Systems chase whole range of manifested creations along the format of idol of Lord Brahma.

3. Vedic literature well preserves the features of idol of Lord Brahma as four head lord, equipped with a pair of eyes in his each head, sitting gracefully on the lotus seat of eight petals and gracefully meditates within cavity on his own heart having transcendental (5-space) seat of Lord Shiv, five head lord and while meditating attains grace of transcendental (5-space) lord and multiplies as 10 Brahmas.

4. Vedic Systems chase manifested creations along this format of hyper cube 4 for transcendence from the manifested creations to their transcendental (5-space) base.
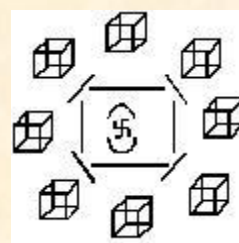
5. The values and virtues of Vedic Systems are parallel to the values and virtues of transcendence Phenomenon within the creator's space (4-space).

6. With it the prime role of VMS & T University comes to be to properly initiate and trained sadkhas for transcendence through manifested creations within creator's space (4-space) to reach at the transcendental (5-space) base.

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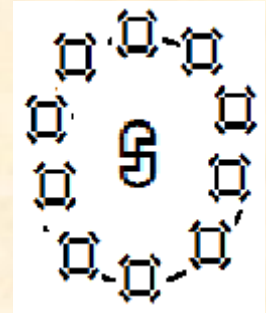
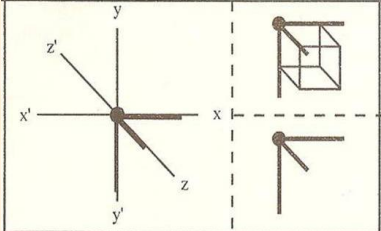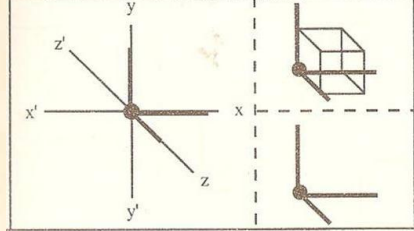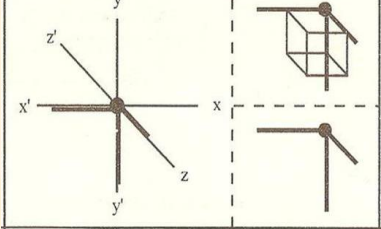**27-12-2014**   Dr. S. K. Kapoor, *(Ved Ratan)*
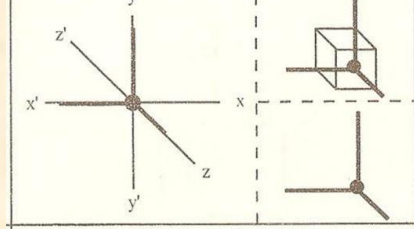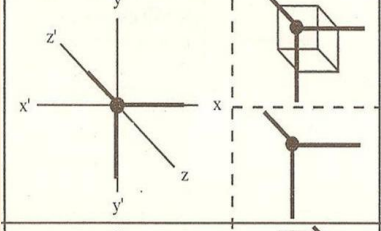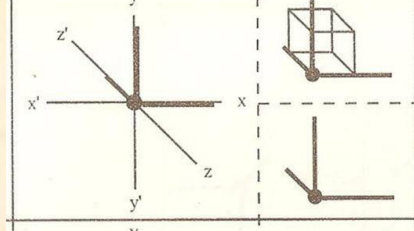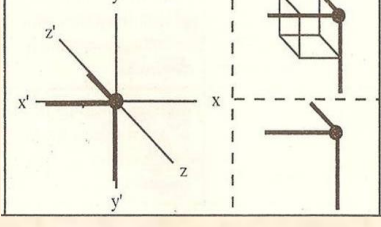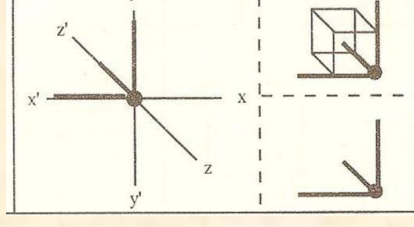
VMS & T Project
School Text Books
(Class IX, X, XI & XII)
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VMS & T Text Book Class IX
(3-space)

Lesson – 04
Eight octant cut of 3-space

1. Let us revisit the set up of cube (⌗).

2. It has eight corner points.

3. In each of eight corner points is embedded a three dimensional frame of half dimensions.

SN.		SN.	
1		5	
2		6	
3		7	
4		8	

4. Let us again revisit the set up of the edges of the cube.
5. Each edge of the cube accepts a synthetic joint at its middle because of a pair of dimensions of pair of end points (corner points).

6. One may have a pause here and take note that 8 x 3 = 24 half dimensions of three dimensional frames of all the eight corner points together synthesize 12 edges with each edge being a synthetic set up of a pair of half dimensions, and that way making each edge a set up of a full dimension.

7. This set up of edges, four in number framing surface plate of the cube shall be bringing us face to face with the organization feature permitting split of the surface plate in four quarters.

8. One may further have a pause here and take note that each edge of the cube is the edge of a pair of surface plates.

9. This feature of the edge will further brings to focus that each point of the edge is the origin point of a two dimensional frame of half dimensions.

10. One may further have a pause here and take note that while each point of the edge is the origin of a two dimensional frame of half dimensions but the end points (corner points of the edge are the origin points of three dimensional frames of half dimensions).

11. One may further have a pause here and take note that as the cube would be of a diminishing volumme, the same ultimately would reach a phase and stage of collapse of eight corner points at center of the cube and in the process the whole range of in between points of the edges as well would have a simultaneous merger with the corner points and a collapse at the center.

12. It is this feature of the merger of in between points of the edges with the corner points of edges will also brings to focus as to how the origin of a two dimensional frame transits and transforms into origin of a three dimensional frame, and a step ahead into the origin of four dimensional frame and thereby would come to focus the feature of compactification of origins at middle point of line / center of square / origin of cube and so on.

13. It is the feature of compactification Phenomenon at the origin which is responsible for the split of cube into 8 sub cubes and parallel to it there being a cut of 3-space into 8 octants.

14. One shall chase this split of cube into 8 sub cubes and parallel to it the split of 3-space into 8 octants to properly comprehend and to appreciate the features of this organizational set up.

15. One way to chase it would be to cut the soap cake with knife in three steps to make it of eight parts.

16. The other way would be to have eight soap cakes of equal sizes and to set them into a bigger soap cakes.

17. This set up of bigger soap cake of eight equal sub cakes shall be having internal meeting point for the internal corners of eight soap cakes.

18. One may have a pause here and take note that the internal corner of the soap cake is parallel to the origin of a three dimensional frame.

19. That way, it can be observed as that internal corners of eight soap cakes, as origin points of three dimensional frames are enveloping the center of bigger soap cakes.

20. One may have a pause here and take note that this set up, as such is of the format and features of 4-space as such a release of 4-space at origin of cube / 3-space enveloped within solid boundary of eight components, to be designated as hyper cube 4.

Symbolic representation		Structural aspect	Nine versions of hypercube-4	
full dimensions frame	half-dimensions frame			

		Origin of 3-space ● Origin	First version	2. Second version
		Origin of 3-space 4-sapce	Third version	4. Fourth version
		Dimensional frame Swastik (卐)	Fifth version	6. Sixth version
		Dimensional frame 4-space	Seventh version	8. Eighth version
		Hypercube-4	Ninth version	
		5-space as origin of 4-space		

21. Let us have a fresh look at the set up of the cube again.
22. Cube is a set up of 27 components (8 corner points, 12 edges, 6 surfaces and 1 volumme) and a three dimensional frame of 4 components (3 axes and 1 origin).
23. Cube as a set up of 27 components, when is joined surface to surface with another cube, 9 of the components (of the in between surface namely 4 corner points, 4 edges and 1 surface area) gets super imposed and thereby the combined set up becomes of 27 + (27-9) = 27 + 18 = 45 components.
24. Now if another cube is joined along with other surface to make the second row, then this start with cube of second row would be of (27-9) =18 components. When second cube is added to the second row it shall be contributing only 18 – 6 = 12 components and thereby the total components of the second row of pair of cubes would be 18 + 12 = 30.
25. Thereby the total components of both rows of 2 cubes each shall be together making out a set up of 45 + 30 = 75 components in all.
26. Now if the second storey is built upon this base storey of four cubes of a pair of paired cubes (4 cubes as a set up of a pair of rows as above of 75 components) then
    (i)   The first row of the second storey shall be a set up of 18 components and the second cube of the said first row of second storey would be of

12 components and thereby the first row of second storey shall be contributing $18 + 12 = 30$ components.

(ii)   The first member of the second row of second storey would be a set up of 12 components. However second member of the second row of the second storey would be of $12 - 4 = 8$ components and thereby the second row of second storey would be set up of $12 + 8 = 20$ components in all.

(iii)   This way the total components of both the rows of second storey would be $30 + 20 = 50$ components.

27. With it the structural set up of both the stories of pair of rows each of pair of cubes would be $(45 + 30) + (30 + 20) = 125 = 5 \times 5 \times 5$.

28. Here it would be relevant to note that the set up of eight cubes (as above) is parallel to eight octants cut of the cube.
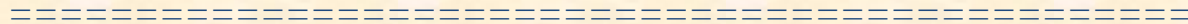
29. As such eight octants set up (2^3) leads to $125 = 5^3$ components set up.

30. It would be a blissful exercise to note that 3^3 sub cubes set up of the cube shall be leading to 7^3 components.

31. It would further be a blissful exercise to note that to workout n^3 sub cubes split of cube as a set up of $(2n + 1)^3$ structural set up.

32. Here it would be relevant to note that n-space accepts $(2n + 1)$ geometries range

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27-12-2014   Dr. S. K. Kapoor, *(Ved Ratan)*