

**Vedic Mathematics, Science & Technology  
Teacher Course**

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**FOUNDATON OF 4-SPACE VMS & T**

This day the course focus is upon 'Foundation of 4-space VMS & T'. It four folds aspects being taken up are as follows:

- 41. To imbibe the values of real 4-space
- 42. Foundation of 4-space VMS & T
- 43. Transition from 3-space to 4-space
- 44. 3-space domain in sealed state

The values being covered are to be taught as lessons numbers 41 to 44 to the students of 4-space Vedic Mathematics, Science & Technology.

**LESSON-41**

**TO IMBIBE THE VALUES OF REAL 4-SPACE**

- 1. Degree of freedom of motion in space for solids make the space around as a 4-space.
- 2. A degree of freedom of motion for solids framed within dimensional frame of 3 dimensions makes the 4<sup>th</sup> dimension.

3. The solids being enveloped with in a spatial boundary, as such the dynamic state solid shall be swapping the space around in terms of its spatial boundary.
4. This makes the fourth dimension acquired by the dynamic state solids being of a spatial order.
5. One may have pause here and take note that dimensional frame of solid is a set up of 3 linear dimensions.
6. However the emerging fourth dimension is of a spatial order.
7. One may have further have a pause here and take note that the spatial order of the dimension in 4-space will make dimensional frame of 4-space being a setup of quadruple spatial dimensions.
8. It is this distinguishing feature which deserves to be comprehended well and to thoroughly appreciated to have full imbibing of the values of 4-space.
9. One may have further have pause here and take note that the emerging spatial dimensional frame of quadruple dimensions leads to value  $2+2+2+2 = 8$  as the value of this dimensional frame.
10. One may further have pause here and take note that as triple dimensions of solids lead to sequential values triple (1, 1+1, 1+1+1) and the same in a dynamic state, at next step leading to value '8' because of spatial dimensional order of 4-space.(a space of motion of solids).
11. It brings us to face to face with a values quadruple (1, 2, 3, 8).
12. This enlightenment value is preserved by Sweteshwara Upanishad.
13. One shall sit comfortably and permit the transcending mind to glimpse and imbibe the values of real 4-space, a space of spatial dimensional order, permitting to be

framed within a dimensional frame of quadruple spatial dimensions.

14. One shall further visit and revisit the setup of a cube.
15. A 3 dimensional frame of triple spatial dimensions helps cut cube as 8 sub cubes parallel to split of 3-space into 8 octants.
16. It would be a blissful to take note that innermost corner point of all the sub cubes having common placement at centre of the cube itself.
17. It would be further blissful to take note that in each corner point of cube (as well as of a sub cube) is embedded a 3 dimensional frame of half dimensions.
18. This makes centre of the cube being enveloped by 8 solids together constituent a solid boundary of 8 components.
19. It would be a blissful to take note that centre of cube the seat of 4-space enveloped with a solid boundary of 8 components parallel to the format feature of hypercube 4.
20. As such first location of 4-space within 3-space goes parallel to the centre of the cube, the representative regular body of 3-space.
21. This bring us face to face with 4-space as origin of 3-space, marking its presence as centre of cube.
22. It would be a blissful to comprehend and imbibe the above emerging features and values of 4-space as that 4-space is the origin of 3-space.
23. Further as that 4-space manifests as centre of the cube.
24. Still further as that 4-space is of a spatial dimensional order and it accepts a dimensional frame of quadruple spatial dimensions.

25. Still further as that the boundary of 4-space body is solid and same accepts split of 8 components.
26. This makes the setup of format and feature of hypercube, the representative regular body of 4-space as a 4 fold manifestation layer with 2-space as dimension fold, 3-space as boundary fold and 4-space as domain fold.
27. One may have further have a paused here and take note that center of the cube unfolds a ten directional frame.
28. Further as that at centre of cube is seat of origin of 3-space and as such of origin of a three dimensional frame of 3 full dimensions.
29. Still further as, that each of 8 corner points of cube is embedded a 3 dimensional frame of half dimensions of orientation inward towards the centre of the cube.
30. This make us coordination of these 8 three dimensional frames of half dimensions as quadruple pairs of such frames.
31. Further as that at the corner point of 4 internal diagonal of a cube are the seat of origin points of the respective 3 dimensional frame embedded in the respective corner points of the cube.
32. Each of the four diagonal manifests a translation path for the respective 3 dimensional frames with origins at the end points of the diagonals.
33. The pairs of 3 dimensional frames on their translation and with a reach at centre of the cube will result into a synthesis there of their 3 dimensional frame of full dimensions.
34. Likewise will gets synthesized quadruple 3 dimensional frames of full dimensions which together with 5<sup>th</sup> three dimensional frame of full dimensions already available at

centre of cube will make a setup of 5 three dimensional frames of full dimensions.

35. This makes a solid dimensional frame of 5 solid dimensions of a transcendental domain (5-space).
36. One may have pause here and take note that this bring us face to face with the seat of origin being the seat of 5-sapce domain.
37. It would be a blissful to comprehend and imbibe these values.
38. It will bring us face to face with the setup of hypercube 4, the representative regular body of 4-space, accepting 5-space in the role of origin fold of hypercube 4.
39. One shall sit comfortably and permit the transcending mind to continuously remain in prolonged sitting of trans and to glimpse, comprehend and to imbibe the features and values of 4-space body manifesting along the format of hypercube 4 parallel to format of idol of Lord Brahma, the over lord of real 4-space.



## **LESSON-42**

### **FOUNDATION OF 4 SPACE VMS & T**

1. 4-space Creator's space.
2. Lord Brahma is over Lord of 4-space.
3. Idol of Lord Brahma manifests the creation format.
4. The creation format is a 4 fold formats.
5. Four heads of Lord Brahma settle dimensional frame of four dimensions.
6. Pair of eyes each head settle the spatial order (2-space in the role of dimension of 4-space).

7. Lotus seat of eight petals of idol of Lord Brahma settle solid boundary of eight components for hypercube 4, the representative body of 4-space.
8. Seat of Lord Shiv, 5 head transcendental Lord in the heart of Lord Brahma settles transcendental origin fold of hypercube 4.
9. Hypercube 4 is a 4 fold formats with 2-space in the role of dimension.
10. Square is the representative body of 2-space.
11. 2-space accepts a dimensional frame of a pair of axes.
12. This dimensional frame as a set up of pair of axes, organizes a format for the domain fold (surface of square, as organization of infinite sequence of infinite sequences).
13. One may have pause here and take note that square surface accommodates infinite number of lines and each line accommodate infinite number of points.
14. With its surface / domain fold of 2-space accommodate infinite sequence of infinite sequences as its entities.
15. One shall sit comfortable and permit the transcending mind to glimpse and imbibe the values of this organization feature of creator's the space(4 space)
16. It would be blissful to take note that here in this organization format the spatial order is inherently having been inbuilt foundation of 4-space VMS & T.
17. One may have pause here and take note that the foundation of 3-space VMS & T is inherently built in the organization format of ninth sub cube of the cube and foundation of 4-space VMS & T is inherently built in the spatial order of 4-space.
18. One shall sit comfortably and permit the transcending mind to continuously in prolonged seating of Trans and

to sequentially glimpse and imbibe the values of foundations of 3-space VMS & T and four space VMS & T.

19. Along the foundation of 4-space VMS & T manifest the whole range of hyper cubes of negative, zero and positive dimensional order, including the linear dimension order of 3-space, as well as the spatial dimensional order of 4-space itself.
20. The foundation of 5-space VMS & T is of transcendental features as the foundation of 5-space VMS & T is inherently built in the transcendence permissible in the set ups of 4 folds manifestation, creation, format of hyper cubes along the format of idol of Lord Brahma, the over lord of creator's space, who transcendence multiplies as 10 Brahmas.
21. The way transcendence goes self referral with strip of creative a boundary of transcendental domain and there by stand established foundation of 6-space VMS & T.
22. Creative boundary creating self referral domain is the foundation features of 6-space VMS & T.
23. Transcendence permissible at the origin of hypercube is the foundation of 5-space VMS & T.
24. In spatial order is inherently built the foundation of 4-space VMS & T.
25. The lively ninth sub cube phenomenon is the foundation of 3-space VMS & T.
26. One shall sequential comprehended and imbibe the values and feature of foundation of 3, 4, 5 & 6 spaces VMS & T.
27. One shall continuously remain in prolonged setting Trans and to glimpse the bliss of unison format of unity



state of the virtues of values of different phase VMS & T as 3, 4, 5, 6 spaces VMS & T.

## **LESSON-43**

### **TRANSITION FROM 3-SPACE TO 4-SPACE**

1. 3-space and 4-space distant spaces.
2. 3-space is different set up of then that 4-space set up.
3. 3-space has cube as its representative regular body.
4. 4-space has hypercube 4 as its representative regular body.
5. Transaction from 3-space to 4-space will amount to transaction from cube to hypercube 4.
6. Cube has 3 dimensions avail hypercube 4 as 4 dimensions.
7. Cube has 6 surfaces while hypercube 4 as 8 solids.
8. Transaction from cube to hypercube 4 takes from the 3 dimension and 6 surface frames to 4 dimensions and 8 solid frames.
9. Domain framed within 3 dimensions and 6 surface of cube is a 3-space domain.
10. Domain within frame 4 dimensions and 8 solid is a 4-space domain.
11. 3-space body is framed within a 3 dimension frames.
12. 3-space body is also framed within surfaces.
13. 4-space body is framed within 4 dimensional frames.
14. 4-space body is also framed within solids.
15. 3-space domain is of different features than that of 4-space domain.



16. Distinctives of 3-space domain features is there from those of 4-space domain features, because of distinctives of 3-space contained from that of 4-space contained.
17. 3-space contained is of different features than that of 4-space contained.
18. 3-space contained lumps manifests as domain fold of 3-space body.
19. 4-space contained lump manifests as domain fold of 4-space body.
20. 2-space contained manifests as surface of 3-space boundary body.
21. 3-space contained manifest as solid boundary.
22. 1-space contained as dimension of 3-space dimensional frame.
23. 2-space contained manifest as dimension as 4-space dimensions frame.
24. The center of 3-space body is the seat of origin of 3-space.
25. The center of 4-space body is the seat of origin of 4-space.
26. 4-space placed a role of origin of 3-space.
27. 4-space contained manifests as origin fold of 3-space body.
28. Center of 3-space domain is the seat of origin fold of 3-space body.
29. Center of 3-space domain is of distinctive feature than all other points of 3-space domain.
30. This distinctive of centre of 3-space domain is there because of center being the seat of origin fold of 3-space body.

31. This makes centre of 3-space domain being of dual status.
32. This dual status is firstly as centre is like any other point of the domain, secondly as that centre is also this seat of origin fold.
33. When origin fold is at zero value than is goes undistinguishable and the same gets on distinguishable from center from being just a point of 3-space domain itself.
34. In this state, 3-space domain is stated to be in a sealed state.
35. When this seal is broken, transcendence takes place.
36. It amounts to 3-space domain reaching base fold through origin.
37. One may have a pause here and take note that 4-space domain and its boundary are of distinct features and have distinct placement.



## **LESSON-44**

### **3-SPACE DOMAIN IN SEALED STATE**

1. 3-space domain is a domain fold of a cube/hypercube 3.
2. Hypercube 3 (cube is a four folds setup).
3. These four folds are (1-space as dimension, 2-space as boundary, 3-space as domain, 4-space as origin).
4. 3-space as domain is 3-space contained manifests as domain.
5. At center of domain is the seat of origin.
6. When origin is in a zero value state, then domain in a sealed state.
7. During this state, origin of a dimensional gets superimposed upon center of domain.

8. This way, center domain, origin of 3-space, origin of three dimensional frame have common placement.
9. When origin fold is of expression that it boundary fold and domain fold are marking their presence distinctively then 3-space domain is said to be in un-sealed state.
10. One may have pause here and note that 3-space itself accepts split into 8 octants parallel to it, cube splits into 8 sub-cubes.
11. This amount to, center of the cube being a seat of inner most corner point of all its sub-cubes.
12. This is parallel to domain fold of hypercube 4 being enveloped within a solid boundary of eight components.
13. When domain fold is free off its boundary, it is said to be in an unframed state.
14. However during this state, still 3 dimensional frame condition of set up of domain.
15. With removal of dimensional frame, origin 3 dimensional frame also gets lifted away from its seats at the centre.
16. In this state, 3-space domain is said to be really in an unsealed state, as in this state, it is free of all the restriction because of boundary fold and dimensional frame.
17. However the split of 3-space into 8 octant and parallel to it the split of cube into 8 sub-cubes, amount to 3-space multiplying 8 folds.
18. It is the feature of Triloki multiplying 8 folds.
19. As Triloki as multiply 8 folds, as such each these Triloki will be manifesting further  $8 \times 8 = 64$  Triloki
20. One may have paused here take note that this is parallel to origination of Rig Ved Samhita as 8 Ashtaks and 64 Adhiyays.

21. 3-space domain in an unsealed state releases its origin fold and 3-space domain itself realize to boundary state of 4-space.
22. This state of 3-space domain, in its one shall set up amounts to transition from the format of cube to the format of hypercube 4.

