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

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SPATIAL BOUNDARY & CREATIVE ORIGIN FEATURES OF 3-SPACE BODIES

This day the course focus is upon 'Spatial boundary & creative origin features of 3-space bodies'. It four folds aspects being taken up are as follows:

13. Spatial boundary
14. Solid domain
15. Creative origin
16. Sealed origin

The values being covered are to be taught as lessons numbers 13 to 16 to the students of 3-space Vedic Mathematics, Science & Technology.

LESSON-13

SPATIAL BOUNDARY

SEVENTH GEOMETRY BODY OF 3-SPACE
CUBE WITH ONE SURFACE PLATE
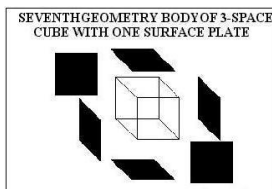
1. Spatial boundary is the second fold / boundary fold of four folds manifestation layer (1, 2, 3, 4) of hyper cube 3.

2. The domain-boundary ratio of hyper cube 3 permits expressing as $a^3:6a^2$.

3. One may have a pause here and take note that square (as hyper cube 2 being the four folds manifestation layers (0, 1, 2, 3) accepts domain-boundary ratio as $a^2:4a^1$.

4. Further interval as hyper cube 1 being a four folds manifestation layer (-1, 0, 1, 2) accepts domain-boundary ratio as $a^1:2a^0$.

5. One may have a pause here and take note that the domain-boundary ratio of interval (hyper cube 1), square (hyper cube 2) and cube (hyper cube 3) accepts common formulation $a^n:2na^{n-1}$, $N = 1, 2, 3$).

6. It would be blissful to take note that the above domain-boundary ration formulation is equally applies to hyper cubes four onwards as well.

7. Domain-boundary ratio formulation $a^n:2na^{n-1}$ deserve to be appreciated and comprehend for value $N = 4$ in respect of hyper cube 4 being $a^4:8a^3$.

8. It would be a blissful exercise to sequentially chase boundary folds of interval hyper cube 1, square hyper cube 2, cube hyper cube 3 and hyper cube 4.

9. The distinct role of the spatial boundary fold, distinct then that of solid domain deserves to be comprehend well for its proper appreciation and for complete imbibing of its values.

10. Here it would be relevant to take note that hyper cube 3 is a linear order set up while hyper cube 2 is a zero order set up.

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LESSON-14

SOLID DOMAIN

1. Solid domain is the third fold of hyper cube 3 being a four folds manifestation layer (linear dimension, spatial boundary, solid domain, creative origin).
2. Solid domain is a set up of 3-space content lump manifesting as domain fold of hyper cube 3.
3. At centre of solid domain is the seat of creative origin (fourth fold of hyper cube 3).
4. One feature of solid domain is that it manifests with in a three dimensional frame of three linear dimensions.
5. It second feature of solid domain is that it accepts a geometric envelop of spatial boundary.
6. Third feature of solid domain is that it is having a seat of creative origin at its centre.
7. The creative origin at centre of solid domain is a point body of 4-space.
8. The three dimensional frame with its origin at centre of the cube, that way seals the domain fold.
9. We may formally define 'sealed solid domain as a solid domain with its origin being is in a sealed state because of super imposition of the origin of three dimensional frames at centre of the cube being the seat of the origin fold of hyper cube 3.
10. One may have a pause here and to properly appreciate and to comprehend the distinctive features of a sealed three dimensional domain from that of a three dimensional frame with unsealed origin.
11. The other feature of cube (three dimensional domain) is that cube splits into eight sub cubes, parallel to the split of 3-space into eight octants.

12. It would be blissful to take note that, a step ahead, sub cube as well, permits a split into eight sub-sub cubes.

13. And this sequential split of cube into sub cubes and sub cubes and sub-sub cubes and so on is of add-infinitum steps.

14. The sequential values sequence $(8^1, 8^2, 8^3, 8^4, \ldots)$ deserves to be chased parallel to the values sequence $(a^1, a^2, a^3, a^4, \ldots)$.

15. It would be relevant to take note that transcendental code value of *Akash* is '8'.

16. Further as that, the transcendental code value of formulation *Ek* as well '8'.

17. Still further as that, transcendental code value of formulation *trïya* is also '8'.

18. And, formulation *iti* two accepts transcendental code value '8'.

19. The value $8 = 2^3$ will help us appreciate and comprehend this value in reference to the value $1 = 1^3$.

20. Here it would be relevant to take note that Shakala Rig Ved Samhita is a scripture of 8 Ashtaks and 64 Chapters.

21. Further as that, the text of Ganita sutras and upsutras is a text of 512 expressed letters + 7 unexpressed letters + 1 un manifests letter.

22. One shall sit comfortably and to permit the transcending mind to comprehend and imbibe the above features of solid domain.

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LESSON-15

CREATIVE ORIGIN
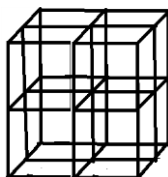
1. Creative origin is the fourth fold of the hyper cube 3 as a four folds manifestation layer (1, 2, 3, 4).
2. 4-space plays the role of origin of 3-space.
3. 4-space is a spatial order space (2-space plays the role of dimension of 4-space), while 3-space is a linear order space (1-space plays the role of dimension of 3-space).
4. It is because of this dimensional order, that creative origin is of point body set up at the seat of centre of the cube.
5. It is with the split of 3-space domain into 8 octants format of 3-space, that the origin has a release from the domain.
6. It is with this release of origin that it manifests as domain fold of hyper cube 4 with solid boundary of eight components.
7. It is this feature of the creative origin, which deserves to be comprehended well.
8. A reach from 3-space domain to 3-space origin is going to be a reach from 3-space to 4-space.
9. It is because of the spatial order of four space that centre of the cube as a seat of origin, acquires a dual status.
10. One shall sit comfortably and to permit the transcending mind to distinctively glimpse and imbibe the values of origin fold of hyper cube 3. ■

LESSON-16

SEALED ORIGIN
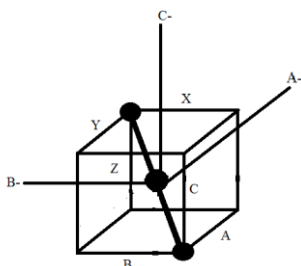
1. Origin of 3-space gets sealed with super imposition of origin of a three dimensional frame.
2. In this state, the centre of the cube acquires structural set up like any other point of the domain fold (volume).
3. Centre, as a point volume gets a sealed point of the domain fold.
4. The sealed point of domain folds of 3-space plays the role of origin fold of hyper cube 2 (0, 1, 2, 3).
5. One may have a pause here and take note that sealed origin of hyper cube 2, as such will amount to a double seal for the point of 3-space domain.
6. A reach at the sealed origin of hyper cube 1 will add another sealed, the third seal, upon the point of three space domain.
7. This feature, as such by definition, be taken as a feature of compactified origins at the same seat / centre of the domain fold of the format of hyper cube.
8. One shall sit comfortably and permit the transcending mind to fully comprehend this feature and phenomenon of compactified origin with-in the domain fold, at it centre.

9. It would further be blissful to take note that with sequential on sealing their emerge surfacing of a sequential range of hyper cubes from with-in the origin folds.

10. One shall sit comfortably and to permit the transcending mind to glimpse and imbibe these feature of the phenomenon of compactified organization of origin folds.

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