दिव्यांगजनों का सामाजिक पुनर्वासन
एक समाजशास्त्रीय अध्ययन

(Social Rehabilitation of Disabled People
A Sociological Study)

सम्पादक

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अनुक्रम

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Impact of Vedic Mathematics on physically disabled children

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Abstract

Vedic Mathematics Is basically originated from ancient Mathematics of India between 1911 to 1918 by Indian Shankaracharya Bharti Krishna There are sixteen sutras and thirteen upsutras in Vedic mathematics. One can solve problems mentally with the help of Vedic Mathematics in few steps. Vedic Mathematics is strictly based on rational and logical reasoning. Vedic Mathematics enhanced mathematical calculation of physically disabled children.one can improve the spatial and logical thinking of physically disabled children.Conventional method of teaching mathematics takes more time than Vedic Mathematics .The present paper is an attempt to examine the efficiency of Vedic mathematics practice on physically disabled children. The mean age of participants is15.5and participants are divided into two groups.One group underwent practice in Vedic Mathematics, the second group underwent conventional methods for teaching mathematics.

Keyword Physicallydisabled, Vedic Mathematics, Vedic Sutras, Urdhvatiryagbhyam, Nikhilam Sutra,

Introduction The 16 sutras of Vedic mathematics can be applied to various branches of mathematics .Simple mathematical operations as division multiplication subtraction as well as trigonometry geometry calculus etc. are one of the few areas where these sutras can be applied

effectively Conventional method of these operations takes lot of operating time Vedic Mathematics allow faster and more accurate mental calculation which strengthen mental health of children. By Dr D Y patil school of science and technology "Vedic Mathematics improve retention and concentration of children. "Vedic Mathematics encourage different approaches to solving the problem which enhance creativity and intervention in children .In this paper we reviewed various papers that used Vedic Mathematical sutras to enhance all over performance of children.

Sutras of Vedic Mathematics

Vedic Mathematics consist of 16 sutras and 13 upsutras to perform mathematical 9calculations.

1. Ekadhiken purvena
2. Nikhilam Navatacharama Dasatah
3. Urdhva tiryaghbhyam
4. Paravartya Yojayet
5. Sunyma samyasamuchaye
6. Sunyamanyat
7. Sankalana byavakalamnabhyam
8. Puranapuranabhyam
9. Chalana -Kalanabhyam
10. Yavadunam
11. Vyastsiamastih
12. Sesanyankena Caramena
13. Sopantyand vayamantyaran
14. Ekanyunena purvena
15. Gunetasamuccdyan
16. Gunakasamuccayan

principaelresent paper the following 5 sutras are selected according to need of the research.

1. Nikhilam Sutra:. In this mathod numbers can be multiplied which are close to the power of 10.

95×97 (both the numbers are very close tothe power of 10)

95×97

100 -95 =5 100 – 97=3

97 – 5=92. 95 -3 = 92

5 × 3= 15

So 95× 97= 9215

2. Ekadhikena purvena :By one more than the previous one.

35^2=1225

One more than previous one

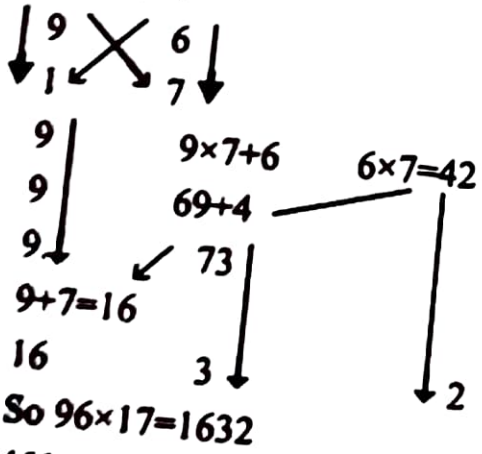
3+1= 4. 3×4 = 12

5^2=25

So 35^2= 1225

3. Urdhva-Tiryagbhyam:Vertically and crosswise Algebraic principle: If two numbers are expressed in the form of CX+D and AX+B then the multiplication result is $AC X^2 + X(AD+BC) + BD$

96×17=?



So 96×17=1632

4 Yaavadunam : Square its deficiency,what ever the extent of its deficiency.

96^2=(96 – 4)^2

92/ 4^2

=9216 So the result.

5.Ekanyunena Purvena. Used forsums ending with 9

563×999. One less than one before

(563-1)(999-562)=562437

Objective :

1.To study the five sutras of Vedic Mathematics.

2.To study the impact of training to physically disabled children.

Hypotheses

1.there will be no impact of 5 sutras of Vedic Mathematics on physically disabled children.

Sample : 30 physically disabled with average age 15.5 were selected as sample, from school of mook baghir children, Kanpur.

Experimental Design :Total number of students are divided into two groups one group is controlled (with conventional teaching) and second is experimental group. Two sets questionnaire on mathematics is prepared to test the achievement of students after the practice of Vedic Mathematics.

Data collection : By conducting a test before the training of Vedic Mathematics to experimental group and controlled group, a report is created. Then after practice of Vedic Mathematics to experimental group for 15 days, conducting another test of both the groups, another report is created.

Mean, standard deviation and t-value of experimental group

Table .1

Test	N	Mean	S.D.	t	Level of significance
Pre	15	15.7	9.98	- 5.327	0.05significant
Post	15	28.88	5.32		

From the above table, difference between mean of pre stage and post stage is

13.81.'t' value is found to be -5.327, which is significant at .05 level. Thus the hypothesis is rejected .So The practice of Vedic mathematics enhance the mental health of physically disabled children.

Table 2

Mean , standard deviation, and t-value of controlled Group

Test	N	Mean	Deviation	t	Significance level
Pre	15	13.68	5.28	-0.298	0.05 not significant
Post	15	14.42	5.49		

From the above It is clearly revealed that there is not remarkable growth in mental health of children of controlled group .since the t' Value is not significant at level 0.05.

Conclusion : The following conclusions are drawn from the research.

1. vedic mathematics enhance the calculating power of physically disabled children .
2. Vedic Mathematics enhanced inovative ideas and critical thinking of physically disabled children.

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