# "Line-Stop Method" - An Innovative Teaching Strategy Of Basic Arithmetic Operations For Children With Special Needs

## K.Manjula M.Sc.,M.Ed.,Pg Dip(Slp).,

Research Scholar, Department Of Special Education, Avinashilingam Institute For Home Science And Higher Education For Women University, Coimbatore-641043

## ABSTRACT

Basic Arithmetic Operations Are Important In Our Day To Day Life. This Teaching Strategy Makes The Special Children To Do More Effective And Can Make Them Easy Understanding Of Simple Addition And Subtraction. Whenever They Do Calculation Especially Intellectual Disability And Specific Learning Disability, They Struggle To Do This Operation. In This Article, The Strategy Which Is Used Here Is Simple And Can Be Taught Easily By Teachers, Special Educators And Parents." Line" And "Stop" Comments Are Frequently Used And Play An Important Role Here. If The Teacher Teaches This Method Very Perfectly, The Child Can Do The Basic Operations Without Assistance.

### Objectives

# To Teach Basic Arithmetic Calculations Through Line-Stop Method For Children With Special Needs.

# To Reduce The Arithmetic Difficulties In The Field Of Mathematics.

# To Make The Learning Environment Easy For The Children With Special Needs

# To Mainstream The Special Children

### I. Introduction

Learning Is Common For All. Everyone Can Learn In This World Each And Every Day. Unfortunately Present Days Our Knowledge Is Identified By The Papers Of Certificates. However We Get Certification Our Life Is Fully Experienced By Practices. For That, All The Students Sometimes Written In Paper And Get Qualified. Even Normal Children Struggle To Overcome These Academic Milestones. We Should Think About The Special Children. They're Children Who Have A Disability Or A Combination Of Disabilities That Makes Learning Or Other Activities Difficult. Special-Needs Children Include Those Who Have: Mental Retardation, Which Causes Them To Develop More Slowly Than Other Children. Speech And Language Impairment, Such As A Problem Expressing Themselves Or Understanding Others. Physical Disability, Such As Vision Problem, Cerebral Palsy, Or Other Conditions. Learning Disabilities, Which Distort Messages From Their Senses. Emotional Disabilities, Such As Antisocial Or Other Behavioral Problems.

We Should Simplify And Modify Their Learning Environment And Resources. I Have Come Across The Children With Special Needs Who Have Difficulties In Basic Arithmetic Calculations Like Addition, Subtraction And Multiplication. An Idea Raised In My Mind And I Have Implemented Among The Students With All Disabilities Except Visually Challenged.

I Thought Line-Stop Method To My Students Nearly (Mild Id -10, Sld -15, Dd - 5, Adhd - 6, Asd - 4). All Of Them Trained Well And Get Good Scores In Basic Calculations. Hence I Wrote This Article Because Not Only My Students Get Benefit From This Method But Also All The Students From This World Should Get Benefit.

# **Description Of Line-Stop Method**

# Counting

Mostly Special Children Do Not Stop When They Count. For That Counting Itself We Say The Comment ''Stop'' For The Last Object Or Picture.

# Eg : Picture Counting

PSYCHOLOGY AND EDUCATION (2021) 58(5), ISSN 1553 - 6939 Article Received: 22th November, 2020; Article Revised: 26th March, 2021; Article Accepted: 26th April, 2021



The Child Is Trained To Write Numbers Below Each And Every Picture In Sequence Order Respectively. At Last Picture Write The Number And Circle It. The Child Should Say The Comment "Stop". This Is The Indication To The Child To Stop When The Picture\Line Is Over. First Train With A Picture And Then Lines.

As Counting Concept Itself, The Child Can Understand "Stop" Comment. Then Move To Draw Lines For Respective Numbers. Number Line

Suppose The Given Number Is Three 3, Child Should Say And Draw Line One, Line Two, Line Three, Stop And Circle It. In The Beginning The Children Is Confused Between Line And One. I.E If The Child Put Line Below He\She Writes Two. We Know That " Practice Makes Perfect" So Continuous Training Gives Good Result.

Ex:



This Is The Line Stop Method. Once Counting And Number Line Concept Is Attained, Pass To Single Digit Addition.

#### Addition

When We Teach Addition Starting Itself We Must Train The Sign\Symbol Of Addition Also. For That Just Trace The Symbol 2 Or 3 Times And Say Addition, We Should Count. Addition Means Count And Then Teach Vertical Addition Alone. Because Children Will Be Confused To Do Horizontal Method.



#### Addition

Step 1: Trace And Say Addition, Say Addition Means Count.

Step 2: Draw Number Line For Each Number In The Right Side Then Use Line Stop Method.

Step 3: Child Ask To Write Number Above The Line Continuously. (7 Put Dot And Say Answer)

Step 4: Answe 7  $\rightarrow$ 

#### Subtraction

In Subtraction Also, We Should Train Symbol To The Children. Trace And Say Minus Means Strike Out (Say 2 Or 3 Times). Vertical Subtraction Only. As We Have Done In Addition, Same Method Is Followed Here.

1 2 3 4 5 6 0 Minus Means Line I 8 Strike Out Т₩ o 2 Three 3 Four 4 Five 5 Six 6 Seven 7 Eight One/1 Stop Match Number And Strike Out 6

Step 1: Trace And Say Minus. Minus Means Strike Out

Step 2: Draw Number Line For The Given Number In The Right Side. Use ''Line-Stop'' Method

Step 3: Child Ask To Match Number Which Wants To Strike Out. Match And Strike Out. Child Should Write Number Above The Line Which Are Remaining. Put Dot And Say Answer.

#### Step 4: Write The Answer.

Examples Are Done For Single Digit Only. It Can Applicable For More Than One Digit Also. But Should Mention The Digit Place Value And Teach Same Method, Can Use Carry, Can Borrow.

#### Merits

- a. Easily Understandable
- b. Can Do Sums Independently
- c. It Is The Foundation For Further Mathematical Calculations
- d. It Can Be Useful For Special Children As Well As Normal Children.

#### Demerits

- a. Speed Maths Is Difficult
- b. Visually Challenged People Could Not Use This Metho
  - d.

### Conclusion

This Teaching Strategy Is Very Useful For Teachers And Special Educators. Fundamental Arithmetic Operations Plays An Important Role In The Academic Skill Of The Children. However Government Gives Concessions Like Calculators For Writing Mathematics Examinations, Every Child Should Know The Basic Operations. So All The Teachers And Special Educators Can Use This Method And Make The Learning Environment Of The Special Children To Be Effective.