July 2022

Box 06, Folder 05 - “Adding By Graphs” (E.M.S - ED-437 folder)

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Adding By Groups

So far D.S. Scaffolding

Passages –

1c Counting By ones

Now Additn. by Groups.

By Parallel Exercises

"When I speak of ||. Ex. I mean those ex. which are separate from one another in themselves, but which refer to one whole.

The are separate Ex. and the ch. can begin with one or the other, as the do in the C. de B. when the do the Unusual Ex.

So the D.S. Gives the Fundamental –

Then the are many Ex wh. are diff^t from another taken together they serve to illustrate the details + make a more profound impression –

Here the Special Pt. Adding of Groups. of Units

The Principle

1) Give Separate & Different

2) Give each in a separate Ex.

as a fascinating whole.

Suppose. Chairs in 3 rooms

7 + 4 + 5 .

"The adding can only be done in one way by the D.S."

What does that mean?

"Every time we arrive at 10 we arrive at a different group."

So we have to reduce the different groups to groups of ten.

7+4+5 = 11+5 = 10+1+5 = 16.

So Two Difficulties

1) . To know what results from the union of units

2) To realize the group is always reduced to 10 + Something.

Difficulty One

This - the result from groups - is a fact of memory - to be visualized.

So we have.

(a) Addition Table (they have it)

(b) Addition Board

This is just like what has been done with Number-Rods

Second Difficulty

The Grouping Reduced to 10 and something

Snake Game

(Described.)

"So the essence these variegated bits have all been brought into b D.S. The essence of this ex. is to find out how many tens are in it. This is the important thing.

Proof of it — in Tens

Aim 1) To practice adding in groups. — a real beginning to addition the results of 2 or more nos — round about 10 ("adosso!" or dieci)

Nothing more complicated than the rods — can to keep repeating & repeating. — & get again in D.S. —

Brings a profound persuasion

Appear to be doing much more (of Dat Same) — because —

All that mental baggage is carried by the
golden snake – for the child.
E.g. 75 + 16 – difficult.
"Tens are sent by advanced luggage"
waiting for us at Terminus

Thus Difficulties are Separate

Control of Error – Making Tens
A pt to begin with – just 10s.

"Thus the mind habituates itself to counting
always with a synthetic reference to 10.
as though everything is referred to
this sole thing –

Difficulty of Adding or Counting always same
1) Effort to count single beads
2) At the same time carry all this
accumulation of 10s.