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A good quality print with lamination and the Ladder will last forever.....almost.

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This system of counting is not meant to replace anything learned at school but is an aid to learning generally. ECALTechniques are designed to develop a strong patterned system of information intake which will aid all future learning

The use of the pronouns he, him, and his is for simplicity rather than he/she him/her etc

Sorry about that girls!

STARTING TO COUNT

You will notice that the single numbers on the ladder add up to ten, i.e. 1 is under 9, 2 under 8, 3 under 7 and 4 under 6, so let's get those numbers established first. Start with nine plus one is ten and show the one step needed to go from nine to ten. Then eight plus two, showing the two steps needed to get to ten, seven plus three with the three steps needed etc.

You can also demonstrate any of the number combinations by pointing, e.g. one and one is two, two and two is four, four and four is eight, three and four is seven etc.

Let's take $3 + 4$. Go to the 3 and count 4 numbers along, you'll end up on the 7. Counting visually like this aids understanding.

Having gone through the various number combinations in the one to nine range, you are now ready to go up the ladder, e.g.:

If 7 and 3 is ten, then 17 and 3 is twenty; 27 and 3 is thirty; 37 and 3 is forty; 67 and 3 is seventy etc. To begin with, go up the ladder in order: i.e. $7 + 3$, $17 + 3$, $27 + 3$, to $97 + 3$, then jump one or two e.g. $37 + 3$, then $57 + 3$, $87 + 3$. Repeat for as long as necessary and then jump about at random once the concept is grasped i.e. $7 + 3$, $37 + 3$, $57 + 3$, $27 + 3$, $97 + 3$, $67 + 3$ and so on.

MAINTAIN THE PATTERN

If you are using , let's say, 7 and 3, you'll find it easier to keep to those number endings for the duration of that lesson, (in the early stages at least) never suddenly switch to 36 and 4 for example, or 48 and 2. Stick with your number ending to maintain the pattern.

In those early stages allow the student to use his finger to help him count, i.e. he physically traces along the ladder from e.g.:

$$37 + 3 = 40.$$

That is he might need to put his finger on the 37 and count along the next three numbers before saying forty, i.e. 38, 39, 40. Using the fingers brings in kinaesthetic intelligence, one of the eight intelligences we all have as identified by Prof. Howard Gardner of Harvard in 1983.

Soon he'll be able to follow it with his eyes and before you know it, he'll understand it. The automatic process of Ontogenesis will have taken place at a subconscious level and he will now know that 7 and 3 is ten in the way that he knows that his name is Moushin or Alexander, or she knows her name is Rosemary or Alicia.

The Five Ten Zig Zag Game

You can use the Ladder to great effect to learn to count in fives up to 100 i.e. 5, 10, 15, 20...85, 90, 95, 100, by zig zagging your way up the ladder. Like all the Number Ladder exercises it can be treated more like a game than a lesson.

Please Note

When we refer throughout this booklet to the Left or Right Brain, we are talking about the Left and Right Hemisphere of the whole brain. The word brain, as used with Left and Right, is for simplicity of language.

MULTO MULTO GOODO

5. Now follow this, and notice something.

7 – 17 – 27 – 37 – 47
57 – 67 – 87 – 97

The 7 is in the same position in every box from the Lower Tens to the Nineties....What do you mean SO WHAT? You little whippersnapper. But ‘so what’ is actually a very good question and we will tackle it in the next worksheet. A clue to which is the word, **PATTERN. Ask teacher what it means in the World of Numbers.**



All right, where are these Numbers Ladders they are all talking about?

$$27 + 8 = 30 \text{ something} \quad 47 + 8 = 50 \text{ something.}$$

$$77 + 8 = 80 \text{ something} \quad 97 + 8 = 100 \text{ something}$$

And we know what the something is, because we know that:

$7 + 8$ ends in **5**
so the something will be **5** too.

Ok. Using the Ladder if you have to. Work out the following.

$$47 + 8 = \quad 27 + 8 = \quad 67 + 8 = \quad 37 + 8 = \quad 87 + 8 =$$

EXCELLENTATO!! Mon Petit Mince Pies. We're really cooking now.



Flowers from the Magic Garden