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Box 07, Folder 29 - "Fractions at Five" (E.M.S.)

Edwin Mortimer Standing

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A few minutes later, as I wandered about the garden, I came across another interesting spectacle - a littel girl of five or thereabouts (see illutration) busily at work at vulgar fracions . The basis of the materials with which she is working % a series of ten metal circles - all the same size (unity) and divided respectively into halves, thirds, quarters and so on up to tensths. The little girl who knows her numbers up to ten and probably much more) is placing little tickets or label on eachfraction .At the moment the picture was taken she is placing axxixxxxxxxel the last of the tree labesl with I/3 on them on he last segment in the "khirixxx circle which is dividedinto find hoseres thirds . On the last circle , which is divided into tenths you can see she has already plut out all the ten little I/IO labels This is of course only the beginning of ractions; but it IS a beginning and it will make things much easier later on (not much later on by the way) when she begins to add a subtract numerales of fractions . She may not as yet know the names denominator but she knows what it is , and has a world of experience ready waiting n w for the name to be be attached to . On It a few weeks ago I was helping a boy of ten from his junior boarding school who was all in a muddle about fractions - so much that he dould not distinguish a numerator from a denomiator though they had been foing fract ons/in his class for three weeks ! And by no means a stupid toy , by the way . It was imply that the teacher had plunged into the subject without any concrete preliminaries .

I went and at this part that less with there has forms in them our Hudat Balue Room. For There lugge Som leaf formothers her fremues to tem as on to for Cut aut nooden weets for to save turble at begennte noden will. It The ex the hed counted in lakes, and to nooden la af frus meng thin up , & retter Them zach in to rost sochet Thre we have a good exemp of M. P. 9 le thout - nang that ruch escure is related (as for as penuls) is a brenan one "neugh to new ex s mindel" hours on. As indicated above the Montessori Method (as it later came to be called)was applied first to childreno fith age 4 to 5 pear, years of age. But the Montessori principles - being based on the observation of living beings - the in themselves a powerful and vitalising enrgy; And just as they say "you cannot keep a good man down" it is equally true to say that you cannot prevent a true and vital principle from acting as a vitlesing farmy beautof the first to childreno fith age 4 to 5 pears.

Thus it came about that as the years and the decades

education of children of later ages . This was by no means an

automatic procedure, but involved an immende amount of labour

automatic procedure, but involved an immende amount of rasearch was calledorally and research. This took the form of the creation of an immense

variety of materials for the teaching of xuxxxxsthe more

advanced stages in rithmetic, Geometry, Algebra, Geography

Hisotroy Religion and so on.

we used the word "teaching" in the last sentence but it

nust be remembered that we are not speaking of "teaching" in the

ordinirally accepted sense of the word. For when chi ddren learn

any suject accoding to Montessori prinicples there is a minimum

of direct teaching by the "Teacher" and a maximum of spontaneous

leraning by the children rithrough there spontaneous individual

activity with the specially constructed materials. The work

of the Montessori Directress consists largely in the initiation of

the children -individually or in small groups - into the correct Senu

These Ordachus materials

ted as to solicit in the child a prolonged spontaneosyactivity;

genul and it is through this activity with the materials that his knowledge deepens, and leadings a payt of himself, but as

a thing but your mineal system

see Joohnelle

FOOTNOTE (This footnote should come in at the bottom of the pre vious page)

right down to the neonato or newly born child - and even betyond. For there is in fact an institution, founded by the aim of Montessori, in Rome, which is to help *** the treatment of their hildren for only in their physical but also their mental development up to the age of *** 2½ yeras

In this way came - as a roult of a new kind of educational science - the PREPARED PATHS TO CULTURE which form so important a part of the Prepared Environement. These paths are there ready waiting for each individual child to travel along them for at his own time and at his own pace 4. Each path is concerend with a particular school subject; and on eachpath the child will find waiting for him a carefully graded series of occu pations, leading to more advanced aspects of the particular discipline in question. (See the diagram).

Let us take an example - form the Prepared Path of Geography .One of the early exercises along this path to not the eraliest for even the Babies have the ir own MAKE Geography materials of a more sensorial-motor kind) is as follows. Montessori prepared a map of Europe & goes on here from the other MS) as far as Each country had a little hole for the

pin to stick inot ...

THE MINATURE GATE CRASHERS

She then introduced this and minimar materials to the older children tages six to eight wears 5 more suited to their more advanced capacities.

altron alt.

Thamend

Then a curious and quite unexpected thing happened - not once + cambus but many tiems, and in many different schools The small children - the fives and underfives -from the adjoing Babies Room came in and watched what was going on . (They would be allowed to do this - so long as they did not in any way interfere with the work) Thew, later on , when the occasion offered they came in again and quietly took away the new material and worked with it themselves . They were able to do this because they had watched carefully how the older ones had been Downse were using the various materials .

In one of the schools I visited: it was Montessori's ow school at Laren , near Amsterdam (Montessori came to live in Holland after she had been given out of Spin by the Communists at eh time of the civilwar in _______) There Iwatch a young fellow

of 41 years putting in the flags of Europe into the map which had been Arepared of volder chi drnen. He did it easily and accurately saying the names of each country correctly as he put in the flags . It seemd to him as easy as winking ! "That's England" he aphounced to me at one point " where you come from - "That's Holland where I live " (see illustration)

Thexheadmistressxx The very same thing happened - so I was told - with other materials -for Arithmetic , Reading , Matrue-Study and so on . The little Gate orashers like juilus Caesar " "came " saw " "and " conquered " in the sense that tehy showed themselves capable of doing the exercises .

Shus it came about - all over the Montessori World in Euorepe and Asia and in America - that the theachimg materials were " graded down "- and the materials originally intended for children at a particular age were adopted and used - and used withgreat satifaction by shildren of a younger age group .

bu 19. I visited a School in Laven. near Amshedam. It was run G Wo M lunelf, nho has been Dun out of Span by to Comment to Civil War. In Mad sound on hale in mto mong I misland Some nose adrino classes. Theo to some ting has haponend I De cens mung at malufuls.

In one of the Montessori schools I visited I had ocular demonstrations of which were a living correboration of what I have just been saying. It was at Montessori's own school at Laren, about twenty miles outside Amserdam. Here I might parenthetically remark that Montessori came to live in Holland in ,after she had been dri ven out of Spain - where she was then living - by the Communists and the Vivila war the was invited to leave the country - at an hours notice - by the captain of a British battle ship an invitation which which she accepted I

which had been prepared for the PREPARED PATH TO GEOGRAPHY, was as follows. (It was not the earliest because, even in the Babies room, there are Geography materials - land and water forms for instance - of a more sensory motor nature)

I watched a boy of about 42 doing this same exercise which had been prepared for the older children, and doing with great gusto and "as easy as winking". He would pick up one of

he flags and put it in its rightful country; or - if he was not sure where it should go - he referred to the key man as you see him doing in the illustration, which I took without his even knowing it. "That's England " he said ro me " where you come from "--"that's Holland where I live "

Later on , in the garden , I saw a similar example for him him of work being done by the small children , which was originally made ofor the older ones . This was an example taken from the Prepared Path For Nature Study ; it consisted in a study of leaf

forms. The game if you like to call it a game (though in fact it was a genuine study) was like this.

Begin Sella & G ... it was as follows To typist . Please put a sign at follows to show that there is a footnote at the bottoke of the page. This is the footnote This was not the farliest step on the Prepared Path to Geography for even in the Babies Room there are Geography mateirials - Land and but there are of Water Forms for instance -of a more sensory-motor nature " To Typist) That is the end of the footnote ; now back to the text which goes on after the words ... "as foolows " The Directress had drawn a map of Europe divided into its various countries, but instead of putting the na es on them she had affixed to each country a miature reproduction of its national flad . This was to act as a key map . In addition she had also prepared anxexaxixxxxixxixxxxxx another map - just the same size , also divided into countries, but these latter were left blank. She had also provoded a pincushion into which were stuck a number of pins, each bearing the flag of one of the countries of Europe . The exercise consisted in affixing the fins , with the flads on them, to the corresponding countries on the blank map- helped in the first stages by means of repeated reference to the control map . Each country, by the way, had a little hole in in it into which the pin of the flag could enter: it could do this easily becasue the map itself was mounted on plywood or cork (I forget which)

This material, as mentioned above, had been originally made for the six and seven year olds but the little fellow

I watched doing it could not have been more than 4 or 5.

e was doing the exercise with great gusto and "as easy as winking" Already he knew where most of the flags should go but e very no w and then, when he was doubtful, he would consutt the key map - as he is doing in the snap I tool of him (

("e was not e en aware that I had taken it so absorbed was he in his work . "That 's England " he KENKEKEd said to me at one stage " where you come from " (I had previously been formally introduced to the class) .. " and that's Hollan d where I live " he added pointing to hiscountry on the map .

tarried their little tables and chairs outside and were working in the garden or the verandah. I wandered round until my attention was taken by something I had never seen before. It was a material for the study of leaf forms and very ingenious it was. This took ad been originally prepared for older children butthe ones that I saw using it and using it with enthusiasm were not much morethan five years or perhaps six.

The game - if you like to call it a game, though it was a genuin s study - was olike this . On a long table in the garden were diagrammatic representations of the chief different leaf forms, each being painted on a separte cards. A child would come up to the table choose a card, pick it up and go off with it into the garden where he would search for a real live leaf of the same shape. Thereupon he would pick a leaf off the tree or bush and bring it back and put both the origin leaf (on the card) and the newly found copy next to each other.

In this way what under the old dry-as-dust system have been a bookish classification with no particular interest was now transform ed into a series of thrilling voyages of discovery.