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Box 18, Folder 29 - "Precocity" (E.M.S.)

Edwin Mortimer Standing

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ren were working I saw a boy ($8\frac{1}{2}$ years) down on his knees with a great quantity of different colored beanbags spread out on a rug on the floor. I asked the Directress what he was doing, and she replied, "He is working on positive and negative numbers, which form a preparation for algebra." Then she took a slip of paper and wrote on it the following numbers: 12, - 7, -4, 3, -5, -8, and gave it to the boy, who looked at for a few seconds and promptly gave the answer - 9. "Now you make one up, please," she said to him. The youngster thereupon wrote down a similar sum, and I noticed that he set himself a much harder one. It was as follows: - -38, -60, 10, -56, 39, - 76. While he was working it out in his head the teacher did so too. (I tried to also but ^{mental} arithmetic was never my strong point; I got muddled and gave it up!) The boy, without any visible working, simply wrote down - 105. The teacher, meanwhile, had produced a different answer; but, on doing again, she found the boy was right and she was wrong.

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This is exactly how Montessori teachers argue when people say the Montessori children are too precocious. They know it is not a question of precocity at all ; it is simply because the children of the same age groups of the kindergarten and earlier grades are so treated that they have no opportunity of revealing the more advanced possibilities that are within them.

I had a singularly vivid proof of this recently, actually since beginning to write this article. I am acquainted with a lady who teaches a first grade class in a public school in a large city. She is very keen on Montessori principles, and has introduced them - as far as she was able - with her class of 22 children. She had supplied them with a certain amount of teaching material for the 3 R's and had encouraged them to work individually ~~and~~ and choose their occupations. The children responded with eagerness to this approach

but after six to eight months they had come to the end of the materials which she had prepared for them. Whilst things were at this stage, one day with the teacher's permission, I introduced a lot of Montessori materials for teaching the various operations of arithmetic, a little more advanced for the children. Though I had been ~~introduced~~ ^{acquainted and accustomed} to seeing Montessori children for some 30 to 40 years I could not help being impressed with what happened. It made me think of a phrase used by Montessori herself when she described how her mentally-starved children, when given the right kind of didactic materials, fling themselves upon it like "hungry lions". This is exactly how these children behaved. Take one instance: the children as a whole in the class were unacquainted with the very idea of the multiplication table; I presented two boys with the material by which it was possible to work out a table for themselves. I started them working separately, both on the 2-times table. They grasped on to the idea and worked steadily through until they had come to the end of table when they showed me what they had done. Then I asked them if they would like to do the 3-times table in the same way, which they did willingly. After that they worked out the 4-times table, and then, straight-away, the 5-times table. At intervals I asked them if they were not tired and would like to stop the work now and finish on another day; but they both pushed on steadily without a break, until - after working continuously for $2\frac{1}{2}$ hours - they had worked out for themselves all the multiplication tables from the 2-times to the 10-times table. Furthermore each of the boys recopied each of the tables as he did it onto a blank form of the well-known table of Pythagorus. Similarly I started another boy, somewhat younger, on a material showing how to do short division, on the principle of sharing.

He too worked on steadily and avidly through all the sums which had been prepared for him and after that made up some of his own, and he too worked without a break with this subject of division for over two hours.

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The whole atmosphere of the room seemed vibrant with the enthusiastic discovery of each child ^{of} ~~w~~ith the various pieces of material, and what he was able to do with it. Some worked for a less amount of time than others, but they all worked. I had the feeling that only extreme force could have kept them from it. And yet it was an experience of joyful concentration, not an assigned task that must be done to please this visitor. After my first introduction they actually were not ~~w~~arably noticeably aware of my presence.

One little blond boy, just 6, spied the movable letters for the first time and promptly spelled out "y-a-l-o-j-a-k-e-t." It seems that he had had the misfortune to have been stung by one of these beasts the day before and was still suffering the consequences.

Present

Article
Dessert
MS

The first attachment of the form seemed unusual with the original
form. While in my third work period, I the enclosed
do not for Justice, I shared with me her second attachment of the memo-
randa on problems. When she completed a page she brought it to
his
writing a lot of exciting pages (most each working individually on
was finally engaged in the activity with the five or six other youngsters
and she eagerly accepted the invitation. Within a few moments she
the activity for awhile, I offered to show her the use of the material
to which I had an estimate of time for experiment. She watched
additional problems which I first solved for them and then left them
to solve on their own. I
felt very glad to help a group of youngsters who were really working in
satisfaction; we didn't realize it until the following day when I did a lot
of things. I was surprised by the results as I had never seen them do
over the house.
The following day I felt that this project of the children was
and working in a group of four to five was up some of the work. I
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