

The way in which the planet Neptune was discovered was adduced as a fine example of the Method of Residues.

Coming now to the more familiar "instruments," the first named was Definition. It might safely be asserted that the whole science of Political Economy rested on deductions made from careful definitions of some seven principal terms.

The second was Classification; and Botany and Zoology would be seen to be principally Sciences of Classification.

A third great help to the advancement of knowledge was the formation of Hypotheses. In general it was found that successive false hypotheses paved the way for the final true hypothesis.

But the greatest instrument of all was Deductive Reasoning,—that kind of reasoning employed in the demonstrations of Euclid.

These, with certain subsidiary processes, and the five Experimental Methods of Investigation, were the only means by which we could compel reluctant Nature to reveal to us the order and the causes of her phenomena.

At the conclusion of the lecture, the CHIEF SUPERINTENDENT distributed to all present printed copies of the five Canons above referred to.

#### SEVENTH SESSION.

ILLUSTRATIVE EXERCISES IN THE ELEMENTS OF INDUSTRIAL DRAWING, BY THE DEPARTMENTS OF THE MODEL SCHOOL.—The children of both Departments of the Model School were at their seats, with their Teachers, at the opening of this Session. Blackboards extending about forty feet in length, had been provided for them to draw upon.

To prepare the way for the better appreciation of their exercises, DR. RAND explained that Industrial Drawing was introduced into all the Schools of Fredericton last November, but had been commenced in MISS TWEEDIE'S Department in the previous May. The pupils present, belonging to that Department, had therefore been engaged in ordinary practice, in Drawing, for a little over one school year. He briefly described the method pursued, stating that they worked by imitation, from memory, from dictation, by enlarging, by diminution, and to some extent from original design.

MISS MINARD then set her scholars to work drawing simple figures from memory, upon their slates and the blackboard.

MISS TWEEDIE'S Department at the same time was employed in drawing from dictation, some at the board and some on slates. A portion of the pupils afterwards drew on their slates from memory, while others drew on the board, from dictation, several figures composed of straight and curved lines. One boy, apart from the rest, was busy in the meantime drawing on a blackboard an original design, from elements suggested by a gentleman in the audience,—namely, the maple leaf and the square.

After the slates had been passed around for the inspection of the Teachers, the children were marched out in order, receiving as they retired, expressions of well-merited approbation for the satisfactory manner in which they had performed their part of the work of the Institute.