

EDUCATION JOURNA

Devoted to Education, Literature, Science, and the Arts.

Volume XX.

Quebec, Province of Quebec, November & December, 1876.

Nov. 11 & 12.

TABLE OF CONTENTS.

-	
Drawing as an element of	University Intelligence 19
advanced Industrial Edu-	The Montreal School of Art
cation (concluded) 165	and Design 19
The Limitations of Education 167	Short sight in school children !
Chinese Schools and Educa-	MISCELLANY:
tion 167	Use of Stimulants by Women 19
Object Lesson Teaching at	To bleach leaves 19
the Centennial 171	Experiments on arsenic !
The Science of Teaching 172	Clear ice 19
The Press on Education 173	Rules for prompt action in
Girls at School 174	case of accidents 19
The Art of Deception 175	Coloured lights 19
Feachers 176	Statistical facts about the
Confucius 176	Gentennial 19
School discipline 176	Useful recipes 1
Firm training of Children 177	Trinoli 1
A Few Words on Turkey 177	Girls can learn to be house-
Spelling 178	keepers 1
Official Notices :	Teach Children 1
Appointments-School Com-	The blessing of good wives 1
missioners and Trustees	Oil vourself a little 1
-Erections and annexa-	Winter evenings 1
tions of school municipa-	Weighing light 1
litics 180	Fine words 1
Poethy:	The sufferings of Childhood 1
Don't forget to pray 181	Livingstone's researches 1
EDITORIAL:	Anti-Early Rising 1
Duration of daily atten-	Rapidity and Superficiality 1
dance in School 181	Meteorological facts concer-
The Teachers Parliament	ning the Dominion 19
in Session 181	The french museum of natio-
OHITCARY:	nal antiquities !
His Excellency Lieutenant	Anvertisement:
Governor Caron 188	Teacher wanted 1
Funeral of the late Lt-	Meteorology 1
Governor 188 '	

Drawing as an Element of Advanced Industrial Education.—(Goncluded.)

DY C. B. STRITSON.

STEPS IN REPRESENTING SOLIDITY.

The work should begin with the simple forms of solid geometry, the circular being drawn before the plane-sided, as the former present less difficulties than the latter. It is an absurdity of which many are guilty, to base the drawing of circular solids and objects upon but are not always the easiest in application.

the drawing of the more complicated plane sided ones.
After the geometrical solids, objects of corresponding shapes are logically in order; these to be followed by ornament in relief, and by casts of natural forms and of the human figure; the course to conclude with drawing from nature and from the living figure. The first aim should be to represent the objects in perspective outline,—the literal form. When this has been mastered, light and shade can be properly added; and then a steady light must be had, as when it is admitted into a room only from the north or northeast.

Some object vehemently to the use of flat or printed copies in this kind of drawing. Of course the only genuine object-drawing is drawing from the solid itself. But it does not require much pedagogical acumen to discover that flat copies, supplementing the solids, can be made greatly to facilitate progress at the outset. Both the printed copies and the objects should be as beautiful as possible, in order that the taste of the student may

he elevated while he is learning to draw.

It will be well here to observe that there is a kind of drawing executed entirely with instruments, which is called linear perspective, and sometimes simply perspective, as it is the only drawing that conforms literally to the meaning of that word. This kind of drawing is often employed, even by those who regard drawing is often employed, even by those who regard themselves as experts, to explain the principles to be observed in drawing from the round or the solid. But only confusion results from thus mixing the two met hods, since they have so little in common,—since they differ both in principles, and in aims. Linear perspective is employed to a limited extent by artists, but is chiefly used by industrial draughtsmen. It is the only means by which the architect, for example, can make from his working drawings. A nictorial representation from his working-drawings, a pictorial representation that will show, with a near approach to the truth, and in advance of construction, how a building will look when completed. It must, therefore, be regarded as an element of advanced technical instruction.

There are two methods, sometimes called the direct and judical of making perspective representations.