INSTRUCTING THE PUPIL. DIFFERENCE BETWEEN THE OLD AND

NEW SCHOOL TEXT-BOOKS.

Striking Changes Which Have Oc-red_Rise of Illustration-Language oks Popular-Decline of the "Bigher tders"-The Development of Taste.

Book Popular Decline of the "light Book Popular Decline of the "light Beak Popular Decline of the set scheduler of the set of the set of elementary schools. One of the when the text-book of today and that of the earlier period lies in illustra-tion. Publishers, complying with the demands of the "new education", have processes in making attractively and accurately pictorial almost of the earlier period lies in illustra-tion of the "new education", have processes in making attractively and accurately pictorial almost of the earlier period lies in illustra-tions of the "new education", have processes in making attractively and accurately pictorial almost of earlier period lies in illustra-tions of the "new education", have processes in making attractively and accurately pictorial almost of earlier period lies in the scheduler of flustrations is at pictures are found in books where the aptience are to study to which the application of illustrations of merican of the scheduler of scheduler of the pictures are a feature. The foreign teachers when thaking of text-books of the pro-buccion of this country, and their ob-mont of foreign teachers when the application of astonish-to have failen from then, fol-oher of the country, and their ob-mont of foreign teachers and the application of astonish-to have failen from them, fol-oher and the teachers of central and easter Europe-Russian at and easter Europe-Russian at the application of the teachers of central and easter Europe-Russian at the scheduler on spice of scheduler and the scheduler of the teachers of central and easter Europe-Russian at the scheduler of the teachers of the applications of astonish-teacher of the scheduler of the scheduler of the scheduler of the teacher of the scheduler of the schedu

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and eastern Europe–Russians and Austrans being conspicuous among the ladors. The books upon which Hiestration is most lavished are primers and early readers, geographies, mational histo-ries, histories, and all works for the benchigo of science. No pains have only beautiful, but correct. For in-stance, when a place is pictured, it is no longer, as in the older text-books, either from the sketch of some trav-eitor or purely from the imagination, but from the sketch of some trav-eitor or purely from the inagination, but from the sketch of some trav-eitor or purely from the inagination, but from the sketch of some trav-eitor or hot ographs taken on the programme and more in vogue in books inended for the youngest children. All these results are in striking con-fast to the attempts at illustration whet inthe older books, for, of course, such attempts have been made from the time of Oomenious, whose "Orbis Pictura" is one of the curlosities of edu-fational literature. But 20 years ago the doday had not been conceived, and pro-epsed, and brought to the point of the present cheap ness-for school text-ouch distrating as was done was wing and the effort made today to-secter was not deemed essential. In for each of text-books has a fregoraphies. The old geographies wore little more than bald-presenta-tion of political divisions of the origins of political divisions of the origing of political divisions of the origing of the action of the origing of political divisions of the origing of p

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new geography is full both of history and of science. Much of the change in general in text-books is attributed to a wide-spread adoption of the method of in-duction in presenting knowledge to the child. This has not only radically af-fected the treatment of nearly all branches-of study, but has created a new class of text-books for the teach-ing of the vernacular, called "language children, and is meant to teach them how to think and to form sentences, and serves as an introduction to for-mal grammar. The popularity of works of this type is very great; they are used universally throughout the cour-try. The idea originated with German educators.

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day are superior to those of two dec-ades ago. Others believe them to be much better in conception, substance, arrangement, and in attractiveness to the eye, but no better in the purely mechanical respects of paper and binding.—New York Post.

SHEEP FED BY ELECTRICITY.

Au Up-to-Date Invention for Farmers New on Trial In Michigan. A man named McNair has devised a system of pasturing sheep by elec-tricity and experiments are being inde with it at the agricultural ex-periment station of Michigan at Lan-sing. In recent years nearly every town of any size has been provided with an electric generating plant and frequeuity the wires are strung along country roads from town to town. This fact led Mr. McNair to attempt the use of electricity on the farm. For sheep feeding he devised a curious pen some 15 feet square, built of wire and mounted on broad, flat wheels. This pen is designed to run in any pasture, even though it be flith. Wires connect it with a small motor stationed at one side of the pasture, this, in turn, being connect-ed with the electric wires from which power is derived. A turn of a button and the pen slowly creeps across the field. That is the essence of the in-vention. Two lambs and part of the time an of dewe have been pastured in the pen during the summer at the station at Lansing. The field is planted with lucerne, growing, thick and heavy. The pen is so arranged that it crawls the full length of the pasture in one moth, traveling about two feet an hour; at the end of this time it is switched around and travels back gain. As it moves the sheep eat every bit of folder, engrey cropping next hydrogram and the clean as it runs over new ground. A bit of canvas duck is hung over one corner of the pens to that the sheep may be well shel-tered and, curious as it may seen, they have become so accustomed to the moving of the pen that when they lot down to sleep they snuggle up close to the forward end of the pens that they have become so accustomed to the moving of the pen that when they lot epo as it creeps toward them. When the sheep are kept from run-ning over, hilfeating and trampling down a large amount of pasture, and the eps the sheep enter kept from run-ning over, hilfeating and trampling down a large amount of pasture, and the sheep menk have water carrin

QUAINT AND CURIOUS.

Some statistician looking after queer facts discovers that the average woman carries 40 to 60 miles of hair on her head.

A pretty black cat is the much ad-mired pet of a lady of St. Louis, Mo., Mřs. Anita Comfort. The owner has the cat's cars pierced, and now pussy sports a pair of diamond earrings, which giltter attractively against her dwrk fur.

At a dinner given by Count Boni de Castellane in Paris recently, dwarf cherry trees loaded with fruit were used for ornament and the cherries for desert. The cherries, it is said, cost \$4 each. The trees had been forced in hot-houses.

In Maryland a man has patented **a** shirt having a detachable bosom, which can be easily removed and a fresh one put in its place when solled, the shirt having a series of buttons, to which tongues on the edges of the bosom are attached.

Chopin's study for C. Minor for the piano has a passage, taking two min-utes five seconds a day to play that requires a total pressure of the fingers on the keys estimated at three full tons. In other words, it re-quires about a teath of a horse-power.

The present possessor of a piece of land in the district of lizehoe, Den-mark, pays what is believed to be the smallest rent pald by anybody in the world—a single penny. The land has been in his family for generations, and escapes a higher rent through the act of one of his ancestors in saving the life of Count Rantzau of Britenberg castle.

The stoves of the solivian Indians are curious things. A hole is dug in the ground about 18 inches deep and a foot square, and over this is built a roof of clay, with holes of different sizes to receive the various cooking pots. Roasting is done on pots passed through the hole, so that the meat comes out very much smoked anless great care is taken to have only live coals at the bottom of the oven.

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Comes High. "Do you refer to your titled son-in-law as your Highness?" inquired the old friend. "No," answered Mr. Cumrox. "I re-fer to him as my High-priced-ness."---Washington Star.

Suez Canal to be Widened.

Mr.

Suez Canal to be Widened. e Sitez canal is to be deepened and ned, if Mr. Linden W. Bates, the lon hydraulic engineer, who is now uez, reports that the work can be within a reasonable figure. The d Company hopes that the great rway can be enlarged by the usc redges, which are comparatively in-nsive. There is great need of more in the channel, for ships have growing even greater, while the 1 has remained unchanged. Has remained u

Suez canar compare for improvement on a large scale. Both the war office and the colonial office are concerned in the enlargement of the canal, and the request made to Mr. Bates to go to Suez was endorsed by the latter department.

Electricity in the Schools.

Electricity in the Schools. In an article in the current number of Success Thomas A. Edison makes some hopeful predictions for electricity. He says: "Not only as a motive power for massive enterprises will electricity find uses during the coming half century, but it will also be applied to the 'genler success' if I may use the term. By this I mean surgery, optics and astrono-my, but greater minds than mine must dwell on this particular branch of elec-trical usage. Already we have surgical instruments that are being operated by electricity with gratifying success; in-deed, they have gone beyond the experi-mental stage. It will find a large field in the operation of manufacturing ma-chinery, as the Niagara Falls plant shows, and it may even extend to the ariship, but I think it best to confine is use to the earth, until these uses have been exhausted. The doin the land. It should rank with spelling and arithmetic; for, the more as an important element in all of the world's general affairs, and its vale, in connection with practical business and business fairs, cannot be given too prominent a place in America's future."

Indigo to be Displaced.

Indigo to be Displaced. British manufacturers have not ught it worth while to study the pro-sive chemistry of analine or napthol is, says a London correspondent to Paris Messenger. They have been tent to leave the field open to Ger-ny, and the result is now obvious, ne was when British, aniline dys umanded the market of the world, is impossible to understand why that teet was ever lost. Nothing but in-ference can account for it, and then have to explain the indifference, ich is impossible. At any rate, the teket has gone, and there is not an line or napthol dye used at the pres-day which is not produced in Ger-uy. British

It day which is not produced in Cer-any. The industry of the manufacture of ritish dyes is dead, and the industry in ritish. India of the growth of indigo 11 follow it. Behar and other prov-ces will feel it, and it will mean the in of innumerable natives who have ced year after year on the produce of digo. Dyeing with indigo, however, at best a clumsy and prolonged pro-orse. It means immersions in vagious t a clumsy and prolonged pro means immersions in vasiou. ds according to the material o to be dyed.

e fabrie to be dyed. Like indigotine, the new German dye voides for a single bath. So confident e the manufacturers of the success of eir product that a considerable sum s been spent on the necessary produc-e plant, and the new year will wit-sa the advent of the new dye. Save a specialty indigo will not last be-nd a year or two, and then enother itish industry will have succumbed to rman competition.



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