EDUCATIONALCOLUMN

NOTES ABOUT SCHOOLS AND THEIR MANAGEMENT.

How to Pursue the Study of Science-Best Method of Teaching Languages Monument to the Honor of Dr. Burrowes-News and Notes.

Natural Science.

the Through the study of science habit of investigation is acquired. As soon as one begins to explore by the methods of natural science (and a pupil in the primary school is not too young to begin), a person feels a strong impulse to investigate further. He finds that his field of knowledge has been extremely small, and that he has been entertaining fantastic ideas concerning that which lies outside of his little cirele. Scientific truth is absolutely open to the world. There is no such thing about it as an inner secret. Through the study of science the habit of observing relations is also required. Scientific observation is always organized observation. It relates one thing to another, lighting up one fact by another.

The study of science is valuable for the purpose of developing a constructive imagination. The scientific imagination is similar to that which enables a sculptor to see a statue in a block of marble, or that which enables a painter to imagine to himself the picture he is to make upon the canvas, or that which enables the architect to form an idea of the building he is to construct. Through the microscope one sees only minute parts of an object at one time. The constructive imagination needed to form a conception of the whole is slowly developed by working with the microscope. By laboratory experiments we illustrate in a small way the great phenomena of nature-phenomena which are too large to be presented as a whole to our observation. A constructive imagination is needed to make the transition from the laboratory experiment to the natural phenomenon. For the purpose of developing a constructive imagination, illustrated experiments have a high value and should be mingled with all quantitative work.

A person who has acquired the habit of making use of scientific investigation, scientific observation, and scientific imagination will surely become well informed. Most of us are ignorant when we might be wise if we would give attention to the phenomena which are daily presented on every hand. Science teaches conservatism in making and accepting conclusions. It begets a desire to examine the evidence for everything. It propagates a wholesome skepticism in a word which has a passion for being hoaxed. If the entific mind were cultivated more widely, newspapers would not find falsifying so profitable, advertisements would not be so palpably untrue, and history would not need to deal with exaggerations in order to be readable. Science is largely a matter of common honesty. The first thing a person has to do when he wishes to begin to be an bonest man is to take an inventory of considered knowledge, and throw much

In this connection he says: "That the dramatic or imitation ele ment has worked powerfully in the for

自己的复数 化化物的 自己的 网络加州 网络加州 化合理 化合理

enough from the inspection of any dictionary; such words as hash, smash and dash, could never be invented to signify their contraries, the outlay of

smooth and fluid and gentle forces. Closely allied to the vocal expression of outward forces is the expression of inward feelings by the same medium; there is evidently a certain dramatic propriety in the words groan and howl.

and roar, and wheeze, as vocalizing the unward feelings whose presence they indicate. Then when expressions of the simplest form are created in this fashion, the teacher can show how a fair family of kindred sounds will grow from them as naturally as the branches from the stem, the leaves from the branches, and the blossoms from the buds of the trees."

Professor Blackie alludes to the remark of a certain professor, that the prominence given to living dialogues is all very well in the case of living languages, which are studied for the sake of pleasant intercourse with the living, but that in the case of dead lan-

guages, when we have neither a Cicero of reading books, and with books we

Professor Blackie says: teacher in our great English schools may seem natural enough; but it is nothing the less false. The words books are no doubt dead symbols, but they are symbols of sound, and to feel their force fully we must give them voice. If they are not alive now as living organs of national expression. we must make them allve; we cannot read them with mutual intelligence without making them alive : a Ciceronian sentence will lose all its grand swell and stately dignity if not pronounced; and if they must be spoken, all the argu-ments in favor of the conversational method in the case of living languages apply equally to the dead. By speaking them they become more intimately a part of ourselves; we handle them as a workman handles his tools, and shake hands with them as friend shakes hands with friend. In tsudying He-

brew or Sanskrit, if I could find no man to speak to. I would speak to myself: as indeed I did when studying Latin at Aberdeen some seventy years ago as a raw lad. No man spoke to me in Latin, not even the learned Dr. Melvie in learned Marischal College; but I declaimed Cicero to myself in my own room, and hurled forth his eloquent denunciation against conspiracy and treason with as much point and precision as if I had a very Catiline bodily before me. To this excellent habit of self-instruction in rhetoric I attribute, in no small degree, the complete mastery of that tongue of lawearly period of my life."

his stock of knowledge, or what he has and will be placed in a conspicuous same result. This trick is employed place in St. James' Protestant Episco- in the gown shown in the small picture pal Church. The tablet is a token from at the head of the column, wh

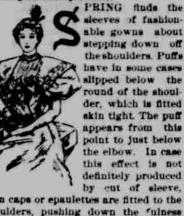
of lavender slik.

mation of human speech will be plain GREAT VARIETY IN THE STYLES FOR THIS SEASON.

> The Day Has Passed When a Fashie Will Be Tolerated After It Becomes Ungraceful-Spring Styles in Biceves -Fronts Droop Over the Belt.

> > this

New York Fashions Washington correst



then caps or epaulettes are fitted to the shoulders, pushing down the fulness nor a Demosthenes to hear speaking of the puffs. This fashion is not yet or to speak to, we learn for the sake generally accepted, and if it should be, it will then be promptly exaggerated. must begin and end. In answer to this and next be given over as promptly. The day has passed when a fashion "This observation from a classical will be tolerated after it becomes ungraceful. The woman with distinctly square shoulders cannot adopt this style without lack of grace, but she which we read in old Greek and Latin can get the same effect by starting the puff of her sleeve at the base of her collar. The fulness can be laid in a smooth, flat fold till it reaches the edge of the shoulder, and then it can widen and take its graceful downward sweep from the round of the shoulder. This method of draping will, of course, produce the desired long slanting slope



from the start of the neck to the tip of yers and rulers which I achieved at an the shoulder. If a woman's neck be short, she cannot avail herself of this device.

In Honor of Doctor Burrowes. A massive black marble tablet in square, almost manly shoulders gracehonor of the late Dr. Thomas Henry ful is the wide stiffened epaulettes, and Burrowes has arrived at Lancaster, sometimes a deep collar produces the

general laws of comparative philology. FANCIES OF FASHION, is worn with a moderately wide shirs RAPID SHORTHAND REPORTING.

This pronounced liking for fronts that droop over the belt has even at tacked the linen shirt fronts. Alas for the girl who rejoiced in the stiff correctness of a real boiled shirt! All the summer shirts have been robbed All of them are loose and only that looseness is the fashion, would be called baggy, yes, untidy. Still they will words a minute are mentioned, appar-be comfortable in hot weather, and if ently, merely to call attention to the



A JACKET FAINTLY OUTLINED.

should. As presented by the next illus tration, the plain skirt hangs in three godet skirts and, like the jacket bodice is of tan covert cloth. A vest of white chiffon with high collar and band of guipure ornaments the front, and there is also a deep collar forming revers in front and piped with moss trimming. The sleeves are full, extending to a little below the elbow, where they are met by deep cuffs. The jacket is belted in front by a band of the goods to keep it from flying open. Machine stitching may be used in place of the trimming on the collar, or a shirt valst can be worn instead of the vest if the weather does not object to the pudding bag effect.

Quite a different sort of jacket from that last mentioned follows it in the artist's depiction; indeed, it is much more an effect than a garment. It comes in a gown of old blue woolen goods, the bodice having a fitted vest of the woolen stuff, garnished with a pointed plastron of white guipure which is edged with a puff of black silk. The latter is used for the sleeves and for the loose fronts, which are let into the side seams. A large guipure collar completes the trimming. Below this there is a perfectly plain godet skirt finished on the inside with a pinked frill of the material.

Though skirts are generally entirely plain, richly embroidered ones like that of the final sketch are permissible, for the rule now is to make the gown of the handsomest material to be found. You must cut holes in it to show a still handsomer material under it, and then cover the perforated material all over with braiding, spangles, embroidery



ome of the Wonderful Stories Are

Exaggersted. "A great deal of nonsense appears in the newspapers from time to time conceruing rapid shorthand writing." said a leading court reporter in New York of every bit of masculine suggestion. the other day. "Instances of stenorgra phers who are able to write at a speed varying all the way from 300 to 400

they don't invite, here's a rig that development of the stenographic art. and the impression is given that such rapid work is so common as to excite Do particular comment. As a matter of fact, however, the stenographer in constant practice who is able to keep UD a speed of 225 words a minute for any considerable length of time is a remarkably clever man, and it is perfectly safe to say that not one court reporter in a dozen is capable of verbatim reporting at the rate of 200 words a minute. To understand what the writing of 300 words a minute means let anyone count out that number of words of ordinary matter and then undertake to read it aloud in one minute's time, pronouncing each word distinctly as it would be necessary to do if a stenographer were taking it down. Estimating an average of two syllables to a word, it will be necessary to enunciate clearly about 600 syllables in one minute, or ten syllables a second. The reporting style of shorthand writing has many expedients for running words together into phrases, so that three or four words are often written quite as rapidly as they can be spoken, and contracted signs are frequently used for the longer words. Still the writing of 300 words a minute in the briefest style of shorthand, would require the formation of considerably over 200 signs-about four every second-and these signs must be accurate enough in form to be readily deciphered by the writer. Chicago has long claimed to have the fastest shorthand writer in the world, and while this individual has given some wonderful exhibitions of speed, it is doubtful if he ever wrote anything near 250 words in a single minute that would pass inspection. A few years ago, at a public exhibition he took notes of legal testimony read at the rate of about 200 words a minute for five minutes. His notes were so illegible, as a result of the speed at which they were written, that even the most expert stenographers could make nothing out of them, and when compared with the matter dictated it was

> Sun. Turning Questions Aside. The art of changing the subject of a

found that at least a dozen words had

been altogether omitted. It is upon

such imperfect work as this that the

preposterous claims of 300 words or

more a minute are based."-New York

conversation which has become distasteful to you is one worth cultivating; a little practice will make you an adept in it. Then when the retailer of nause ous news accosts you and forces dis agreeable topics upon your unwilling and pained ear-or when the busybody questions intrusively as to your private affairs, or, worse still, as to the affairs or circumstances of your near friends-then you are already skilled and accomplished in simply avoiding

the impertinent pressure by a dignified change of theme. Should the baffled news-hunter return to the charge, then you can give the rebuke by a chilling as well behaved as their white neighsilence, repeating the lesson that no information you do not choose to give is to be had from you. Never answer a fool according to his folly, never apologize for not replying. The apologist puts himself on a level with the thief. the would-be thief, who would surprise and steal his secrets. Remember, your affairs are your own; and the more personal dignity you have in refusing to be the tool of curious or prying folks. to be hypnotized into answering solely because you are asked, the more respect even such prying people will have for you.

nights. The boy is still about the city, making his home wherever he chances to be. He is an orphan and says be has been unable to find work in this city. He narrates interesting tales of his past experiences. Syracuse Post.

A Nation of Mourners.

It so happened in Cores, near a century and a half ago, that after one king. by his departure from this life, had entailed upon his people the wearing of the mournful white, the two rulers who in succession followed him, at the respectful intervals of three and six years, were themselves mowed down by the unsparing harvester, and, as a result, the stricken nation was kept in blanched attire for a continuous period of ten years. By popular account, at the termination of this protracted mourning, some wise man, whom the occasion produced, suggested that, should the people again provide themselves with the many-colored garments worn in happler times, and the slarming mortality so recently experienced should again be suffered by the royal house, the nation would have indulged in the useless expense of garments never to be worn. So, with a view to economy, and constant preparation for death's visitation, the Coreans became perpetual mourners. However true this account may be, it remains that a long period of mourning has engrafted upon the national life this custom of wearing only white, observed by all except the officers of the crown.

The male attire for the coolie class consists of two garments of coarse cotton shirtings, baggy trousers, usually rolled up to the knee, with an exaggeratedly long waist, that might easily ensack the head, failing over the belt in a loose fold, and a short jacket fastened at the breast, with loose sleeves, Suspended from the belt are a small string of cash (the country's currency), and a tobacco pouch, while in one hand is the ever-present pipe, with its thimblelike bowl, and reed stem a yard in length. If the feet are at all protected, it is by a pair of straw shoes, or, in rainy weather, by sabots, each with two transverse cleats at the bottom of the sole. All above the coolie class, in addition to wearing the trousers, which they wear bound tightly about the ankles, and jackets with smaller sleeves, have a flowing gown, belted just under the arms, and reaching to their feet. The last garment, in the case of the wealthy office-holders, is, like their others, of beautiful Chinese linen or of colored silk brocade. The feet are encased in white cotton stockings, thickly wadded with cotton, and Chinese shoes.

Names of Indian Children. Every one knows that many queer names are to be found among our Indians, but it may surprise some readers to learn that similar names cling to Indian children, even-after they enter the government schools ? The following list is furnished the Companies by teacher in one of the governmen schools in Oklahoma Territory. They are taken from the school register, and while they are not such as to be pleasing to civilized people, the Indian youth are as proud of them as if they were Smith or Brown. It should be said, also, that the boys and girls are bright intelligent children, doing good school work, and are bors. Here are the names: Lucy Little Standing Buffalo. Atkins White Sail. Anna Bull Frog. Lee Little Turtle. Marie Buffalo Head. Clarence Black Hair Horse, Jennie Boy Chief. Grace Yellow Flower. Mary Big Goose. John White Engle. Martha Crief Pipe. Mary Cries for Ribs. Cora Frizzle Head. Mexican Onjz. Mexican onyx has suffered a gradual lecline in value for many years past. It is generally becoming known that the Mexican onyx is not true onyx, but a species of marble. It is really an aragonite, and is composed of calcium, oxide of iron and magnesium. The presence of these last two elements gives it its beautiful color. It is said the use of African marble and other cheap stones is replacing it. Mexican onyx is easily worked, and has been used not only for building purposes but for ornamental house-bold articles, such as lamps, table tops, mantels, etc. It is used by the ancient Mexicans for masks, idois, and similar small objects. The price of all such articles has of late considerably de-creased. Mexican onys now sells in the rough at from six dollars to twenty dollars a cubic foot. Very large plet bring more than this proportional price. Niagara Falls Hackmon Have Humo I made an interneting discovery when I was at Niagara Falls, said a tourist It was that the backman there have a strong sense of humor. One afterno when I was returning to my hotal with an empty purse and tired out by the importanities of the thousand and one sharks who infest the village, I topped to light a cigar. Thoughtles ly I struck a match against the wheel of a cab. Immediately the driver came running up to me and yelled: "Hi, there, that'll cost you half a dol I was so nervous that for a moment I thought be was in earnest and stared blankly at him, and then he added indulgently: "Well, I will let you off this time." Then he and the other Jehus standing around burst into laughter. They ap precisted their reputation.

ing the advice of the eminent sage who said: "It is better not to know so much than to know so many things that are not so."

"Common sense is not a natural heritage-it is acquired. To this end the study of science may be made a most potent agency. The study of science should develop the capacity for earning a living. It should act as moral ballast, Its devotees are not subject to petty vices. It cannot be said of them that "they are more afraid of doing things conventionally wrong than of doing things morally wrong." The study of science furnishes a basis for religion. State .- Educational News, Philadel much just now, for with the prevailing "True science and true religion." says phia. Professor Huxley, "are twin sisters, and the separation of either from the other is sure to prove the death of both. Science prospers exactly in proportion as it is religious; and religion ourishes to the scientific depth and firmness of its basis." The study of science is humanitarian. Professor Brinton says: "The aims of science are distinctly beneficent. Its spirit is that of charity and human kindness. Its ission is noble, inspiring, consolatory, lifting the mind above the gross contacts of life, preserving aims which are at once practical, humanitarian, and spiritually elevating."

The scientific mind enthrones reason above authority. The world has suffored too much from authority. Ignorant and unreasonable authority has forced into submission an ignorant Jear. and unscientific world, and thus resisted the progress of truth. Even a child has an inalienable right to an exlanation whenever any course he is required to pursue seems unreasonable him. It is tyranny to require implicit edience whenever an explanation is sible .- Journal of Education.

Now Are Languages Best Taught? Which is the best method of teaching which is the best method of the the s foreign innguage orally or by the printed book? This question, meta-phorically as old as the hills, seems yet her from settlement. Prof. John Stuart Sizekie believes the "natural" method, oral, the best. Writing on "The thod of Studying Languages," for he Contemporary Review, he argues at instead of using books and gram-ar rules, the linguistic teacher should ce with giving foreign name and not the dead symb stic facf the learner is called to corre-that books and grammar have ase in the study of languages, ways is a

in Pennsylvania.

thirty years conspicuous above all oth- satin. ers in the educational councils of the

Women Eager to Learn.

Prof. Max Muller confesses that at first he had been opposed to the girls' colleges; but they are, he said, a great success; "and it is a real pleasure to me to see the young girls so eager to learn. Young men do as little as they can; young women do as much as they can-too much, indeed. Again, they work more systematically, and their knowledge is better arranged. It tends wonderfully to the improvement of the whole of their character. I wish the

Educational Topics. The Detroit School Board asks for \$1,632,333 to run its business another

The School Board at Ann Arbor Mich., will abolish the "fraternities" among the high school pupils in that city.

Work has been commenced at Ba Lake, Ind., near Chicago, on the grounds for the Western Presbyterian Chautauqua.

It is estimated that the total cost o the first twelve new buildings of Columbia College will be \$3,100,000, an average of over \$258,000 each.

Miss Sarah McLeas Hardy, of Chicago, fellow in political economy at the University of Chicago, has been elected instructor in political economy in Wellesley College.

Governor General Lord Aberdeen and the ministers of the Dominion Cabinet have signed the remedial order which is the primary set for the re-establish-ing in Manitoba separate schoola, which were abolished by the provin-cial statute of 1890.

The committee of Harvard gradue aving charge of the proposed use to the Rev. Dr. Andrew Peo as decided to expend a small po 1.1

the educators of the State in recogni- made of pearly-white satin, its plain tion of his great services to the cause wide skirt laid in three organ-pipe folds in back. On the bodice loose jack-An inscription in gold gives a brief et fronts open over a gathered vest of summary of his educational work. It white crepon, and the ornamentation states that he put into successful ope- consists of a deep collar of turquoise ration the common school system, was velours showing appliqued guipure twice Superintendent of Public In lace, a pretty bow of white chiffon struction, organized the system of sol- with embroidered edges and a draped diers' orphans' schools, wrote the nor- belt of the blue velours. The loose mal school law, founded the Pennsyl fronts are faced with turquoise-blue vania School Journal, and was for moire and the sleeves are of white But wide shoulders need not count for

modes in bodices any woman with a well-formed back and a clever dress-

maker can pass for a good figure with little else. This is because so many rowns are made with hag front ho dices. All the ready-made shirt waists have it, and nearly all imported gowns. Indeed, gowns and bodices of the handsomest material and cut, but without this special characteristic, are selling dirt cheap in the stores. The wise woman buys, and either wears them as they are, if she has a pretty figure, or arranges an applique bag and is happy. For the modern woman it does men could be shamed and spurred on not suffice to be clothed in something to further effort."-Christian Register. pretty and becoming; she must be in



omething that proves itself new, too The dressy waist of the second picture fully answers all these requirements. It is from invender silk, with the fash-ionable full front and fitted seamless tack of bias material. It is artistically t heavy white guipure laid over white points on the slower. 135 eventspping edge White matin v

SATIN OVERLAID WITH CHIFFON

or anything else you can think of. After that is done, then put lace, fringe, rib bon or something else on the edge The idea is to start with as pretty a stuff as can be had and then overlay it with other pretty things. In this instance, bluet satin is the starting fabric, and it is draped with white chif. fon. The skirt shows a rich embroid ery in bluet and gold done on the chiffon, and is bordered with a festooned lace ruffle around the bottom. The set in of the walst is fitted, only the chiffor being full to give the blouse effect. Balloon sleeves held with fancy buck les and a lace berths are added. Orepon has been overdone. Excep

very rich wear and in expensive style it is not to be worn. The tronwith the American woman is that directly something becomes the correct tyle she must put it on and take all orrectness out of it by wearing it erywhere. In the street cars, at all e of day, to market, down town to p, to church, to school, everywhere the velvet cloaks and the by this promiscuous wear that the promiscuous wear that It was thus with velvet cloaks and ost irreproachable material, cut and elegance, may escape vulgarity. It is the same with black crepon skirts. They are seen everywhere. The result is that if a woman is particular, she must wear them only upon the most exclusive occasions, and have them only of the very finest quality. There has cen a great fall off in the sale of cruthere is hardly any new cotode Th trace of

The newset bats are n

Canine Red Cross Service.

The intelligent and persevering Scotch collie is the dog trained for service in the German army. His equipment consists of a strong collar with a leather pocket for letters, a small waterproof blanket for his rest at night and two pockets containing a small surgeon's outfit, linen, medicines and a small amount of dog biscuit. The entire load is less than ten pounds and can be easily carried by the dog for days. His ser vices are most important in the search for the wounded or dead; he often brings first help to a soldier fallen in brush or underwood and completely hidden from sight; he makes an excellent courier, and runs from hospital to command or vice versa, faithfully delivering messages intrusted to his care as ast as a cavalryman, with much less

danger to both courier and message. A large red cross marks each pocket, and lesignates his connection with the sanitary and relief corps. He also carries a small lantern on his back, to enable the litter bearer to follow him in the search for the wounded or dead in the darkness of night.

He Slept Two Days.

An interesting tale is told about a oung lad who came to a Syracuse hotel early last week and asked if he might do some odd jobs about the place in order that he might earn a place to sleep that night. The boy looked deserving and he was set at work. It was Sunday night, and shortly after 8 o'clock he was given a room in one of the less frequented portions of the house. The lad seemed very tired and went at once to bed. It chanced that no one went to the room the next day. and it was Tuesday night before any one thonght of him. Then it was that s tour of investigation was begun. Repeated rapping failed to bring any reones and finally the door was forced The boy was still in bed and still slooping soundly. He explained that it was nearly a week since he had had any sloop, but was surprised that he had actually sloop two days and two

Nell-Do you know, I was all al in the conservatory for the minet with that fractionating Charlie Ful ton last evening, and I was no afra Belle-So afraid of what? Afraid was going to propose to yes? Med-

that does not show so e magic weave and wrinkle. Copyright, 1995.