

BUSINESS NOTICE.

The "MIRAMICHI ADVANCE" is published at Chatham, N. B., every Thursday morning in time for dispatch by the earliest mails of that day.

MIRAMICHI ADVANCE.

VOL. 6--No. 50. CHATHAM, NEW BRUNSWICK, OCTOBER 14, 1880. D. G. SMITH, EDITOR & PROPRIETOR. FOR TERMS--See Business Notice.

10,000 ROLLS

Drawing Room, Bed Room Dining Room and Hall

PAPERING,

from 7cts. to \$1.40 per Roll.

Ladies', Misses' and Children's

STRAW HATS,

Men's and Boy's Caps, Felt and Straw Hats.

STAPLE AND FANCY DRY GOODS,

at all the lowest living prices.

COMMERCIAL HOUSE,

CHATHAM. W. B. HOWARD.

DRESSMAKING.

MRS. JAMES CORMACK,

begs to inform the ladies of Miramichi, that she is prepared to attend to any orders in the above line which she may be favored.

H. WYSE'S,

Receiving this day, at H. Wyse's: MAPLE SUGAR, APRUNES, TAMARINDS, ORANGES, LEMONS, GREEN & DRIED APPLES, RAISINS, CURRANTS, CITRUS PEEL, SUGAR, BUTTER, PEAS, RICE, BARLEY, SPLIT BEANS, HOPS, PRESERVED, GINGER, PICKLED LAMBS TONGUES, MARMALADE, PICKLES, ALL KINDS SPICES, FANCY BISCUIT & CAKE, BREAD OF ALL KINDS.

CARTER'S SARSAPARILLA

The Great Blood Purifier.

Removal.

The Subscriber begs to inform the inhabitants of Chatham, that he has removed from the premises formerly occupied by Mr. Phillip Howland, near Mr. Thomas Fountain's store, and is now in the bakery line, and all orders left at either place will be immediately attended to.

Hotels.

DOMINION HOUSE,

CHATHAM.

DOMINION HOUSE,

Water Street, Chatham.

BARKER HOUSE,

Frederton.

PARK HOTEL

KING SQUARE, ST. JOHN - N. B.

WAVERLEY HOTEL.

NEWCASTLE, - - - - - MIRAMICHI, N. B.

Canada House,

CHATHAM, NEW BRUNSWICK.

ROYAL HOTEL,

King Square.

NOTICE.

The Subscribers have this day entered into Co-partnership, as Druggist and Dentist, under the name of Mackenzie & Co.

For Sale.

For sale by the subscribers, their valuable property situated in the centre of the town of Chatham, being the stand and premises where they formerly conducted their business.

GENERAL BUSINESS.

CHATHAM RAILWAY.

SUMMER 1880.

On and after MONDAY, JUNE 14TH, Trains will run on this Railway, in connection with the Intercolonial Railway, daily (Sundays excepted) as follows:-

Table with columns: LOCAL TIME TABLE, EXPRESS, ACCOMMODATION, THROUGH TIME TABLE.

Trains leave Chatham on Saturday night to connect with Express going South, which runs through to St. John and Halifax, and with Express going North which lies over at Campbellton until Monday.

Trains leave Chatham on Saturday night to connect with Express going South, which runs through to St. John and Halifax, and with Express going North which lies over at Campbellton until Monday.

All the local Trains start at Nelson Station, both going and returning.

All freight for transportation over this road, if above Fourth (4th) Class, will be taken delivery of at the Union Wharf, Chatham, and forwarded from there by Truckage, Custom House Entry or other charges.

Passengers wishing to return from the Junction by the same train may obtain Tickets to the Trip both ways at one fare.

The above Table is made up of the Railway Standard time, and is about the time kept at all Stations.

BEST REFINED IRON.

Lowmoor, Swede, Londonderry and English.

CAST STEEL.

Thos. Firth and Son's Extra Axe, Tool and Drill Steel.

Spring, Sleigh Shoe & Tire Steel.

ROUND MACHINE STEEL.

Manufacture of SPEAR & JACKSON.

Tinplates, CHARCOAL and Sheet Iron, and COKE.

A special lot of Galvanized Sheet Iron - 2 1/2 ft x 10 ft x 20 gauge.

WHISKEY WHISKEY.

20 Octaves Old Scotch Whiskey, 150 Cases do, do, do, & pts.

MONARCH BILLIARD TABLES

We are agents for the Brunswick & Ball's Co., celebrated Billiard Tables and Billiard Furnishings generally.

Photograph Albums,

At the MIRAMICHI BOOKSTORE.

Practical Tailoring.

Gentlemen requiring Suits, or separate Garments, or anything else in the Tailoring line, can have their orders, which are hereby respectfully solicited, promptly attended to by the Subscriber at his shop.

CANADIAN TWEEDS

English Coatings, Broadcloths, Dressing, etc., etc.

R. FLANAGAN,

ST. JOHN STREET, CHATHAM.

Wines.

Dry Goods, Groceries and Provisions, Hardware, Hats, Caps, Ready-Made Clothing.

Jno. W. Nicholson,

Wines, Brandies, Whiskies, etc., etc.

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GENERAL BUSINESS.

1880. HARDWARE. 1880.

J. R. COGGIN, CHATHAM, N. B.



FALL. WINTER

Daily Arriving and in Store.

280 bars Silver Steel, all sizes. 1,200 bars best refined Iron, all sizes.

Gold Leaf and Bronze. Dry Red Lead, Litharge, Dry Colors of every description.

Table and Pocket Cutlery, the largest and best assortment yet offered.

Wedge and Butcher's Razors. Seasoned by great variety.

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Miramichi Advance.

CHATHAM, - - - - - OCTOBER 14, 1880.

Fourth Annual Meeting of the Northumberland County Teachers' Institute.

On Thursday morning at 10 o'clock, the fourth annual meeting of the Teachers' Institute of Northumberland County assembled at 10 o'clock in the Academy building, in the room on the first floor used by the High School, and was largely attended some 60 teachers being present.

Mr. C. M. Hutchison, of Newcastle, Vice-President, said he was sorry he was not able to open the proceedings, as the Secretary, Mr. McCully, B.A., had not yet arrived, and he would ask them to wait a few minutes as the President Mr. Ramsay was also absent.

At 11 o'clock the Vice-President, said Mr. Ramsay, the President was still absent, though he was not prepared to say why. The matter was to be regretted, not only on account of the work to be done, but also on account of the matter of loyalty to the Institute, and in his absence, therefore, it devolved on him, the Vice-President, to open the meeting.

The large attendance of Teachers showed a decided interest in the proceedings, and he hoped that this meeting of the Institute would be as successful as those of the past. He thought their past discussions had not been participated in by the lady members sufficiently, and he hoped that during the present meeting, that this would be remedied, as the best results were arrived at by a general participation in the discussions. He had also to regret the absence of the Inspector, Mr. Cox, who was prevented from attending in consequence of an accident, and he hoped the proceedings would be characterized by the same harmony as in the past. In the absence of the Secretary, he would ask the Institute to appoint one pro-tem.

Mr. D. McIntosh was then appointed Secretary.

On motion of Mr. Roberts, B.A., the reading of the minutes of last session was ordered to be postponed, and the reason entered on the minutes of the present session.

The members of the Institute now came forward to pay their dues.

At 11:20 the Secretary, Mr. McCully, of Newcastle, arrived, and explaining that he was detained by missing the boat, on request, proceeded to read the minutes of last session.

It was moved and seconded that the minutes as read, stand as recorded. Passed.

On motion, Messrs. R. Moir, W. Sivewright and P. Morrissey were appointed auditors to examine the accounts of last year.

The Auditing Committee after examining the accounts, reported them correct in every particular.

On motion of Mr. W. H. Grindley the accounts were read, when it appeared that the disbursements were \$38.39 and the receipts \$36.05 leaving a balance of \$2.66 in favour of the Institute. The Report of the Committee was adopted.

ELECTION OF OFFICERS.

The election of Officers which now took place, resulted as follows:- President - P. Cox, B. A. Vice-Pres - C. M. Hutchison. Sec. - Treas. - C. G. D. Roberts, B. A.

A Committee of Management consisting of two members, Messrs. W. A. Duke, Chatham, and W. Sivewright, Newcastle, was elected, to act with the previously elected officers.

Assistant Secretary - Mr. D. McIntosh.

The Vice-President made a few remarks, in which he thanked the Institute for his election.

FRACCTIONS.

Miss Mary R. Davidson now took up the first subject on the Programme, a lesson "Developing the idea of fractions by means of objects, and illustrating the best method of teaching thereof."

She showed her method by teaching a class of small children, a first lesson in fractions, illustrating her theory by taking parts of an apple by way of example, and representing those parts by the proper fractional symbols on the blackboard. Her method was founded on the principle that abstract truths should be deduced from concrete examples.

The roll of teachers having been called, the Vice-President invited discussion on Miss Davidson's method.

Mr. Duke thought the lesson had been given under some little difficulty, but that the method was a very good one, the trouble being to lead the children to the right idea without telling them too much.

Miss Williston asked if unity was divided into unequal parts, whether such parts were not severally fractions of the whole.

Mr. Sivewright thought that unity might be divided into unequal parts relative to each other, but that such parts would severally be fractions of the whole.

Miss Quinlan (of Chatham) thought these parts were fractions.

Mr. R. Moir, Lower Newcastle, approved of Miss Davidson's method. The word "fractions" was derived from the Latin word *Frangere* to break, and the parts might be either equal or unequal.

Mr. Roberts said in the class before them, the idea seemed to have been developed with much success. He adhered to the definition of a fraction as given in the text-book.

Miss Williston said the definition of a fraction in the text book, "is one or more of the equal parts of a unit."

Mr. Hutchison said the broad view of a fraction was a part of anything, considered as a whole, a fraction itself might become a whole for instance, but it was not right to perplex young children with too much parts might be either equal or unequal.

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stitute, and had since been identified with it. The paper just read met with his approval. He thought Mr. Duke would have done himself more justice, however, had he illustrated his paper by using the black-board. It was evident that he clearly grasped Wormald's method, which was to first present abstract truths (axioms and theorems), by means of simple experiments, but the absence of the inductive system had been very hurtful. He thought that Wormald's Geometry was a hard book to teach. Mathematics could not be taught by rote, but the mathematical idea and the reasoning powers must be developed. When a boy could read mathematics, a great point was gained.

Mr. Roberts said the impression was, that Mr. Duke did not illustrate his paper on the black board, because it might be thought a too close imitation of the text-book.

Mr. J. Hamilton also spoke of the advantage of using a blackboard to illustrate such a paper as Mr. Duke's.

THE VICE-PRESIDENT. Mr. J. Hamilton also spoke of the advantage of using a blackboard to illustrate such a paper as Mr. Duke's.

Mr. Duke, Chatham, read an interesting paper on Wormald's Geometry, Chap. IV. He said "Geometry has that in itself which should make it to the young a most attractive and suitable subject. But the fact is, that instead of a love for the branch, pupils are possessed of a decided dislike towards it. They have often rather to be dragged along than inclined to proceed from any feeling of interest. Mr. Duke showed this to be the fault, not of geometry nor of the pupils, but of the manner in which the subject was presented to them. In the hands of some teachers, this branch, in itself, so apposite to the minds of most students, loses all its charms. There are some elements essential to the proper teaching of Geometry which they disregard whose pupils dislike that branch. One of the most important of these elements is this, that the learner must not only clearly apprehend the truth he is about to be taught, but he should have a knowledge of it as a fact. By reference to the history of the science, this was shown to be the true and natural order of procedure in teaching the subject. The pupil should first be made acquainted with the truth by experiment. Wormald keeps this principle constantly before him in his treatment of Geometry. No reasoning is commenced until a sufficient fund of observations has first been accumulated. This is the part of Wormald's Geometry which is least understood and most frequently ignored. Many teachers regard a mere formal statement of the truth to be proved, often too vague and general for the pupil's perception, and quite sufficient for an introduction to its demonstration. But such statements of principle are not calculated to serve the purpose required, and mere mechanical work is the result. The teacher is forced again and again to supplement such enunciations by extempore explanations, which must often be of a low character, and fail to meet the desired end; the pupil becomes confused and finally finds relief by learning the whole thing by rote. Another element which Mr. Duke referred to was the practical application of abstract truths. No truth can be said to be well learned until it is applied. This principle was illustrated by reference to Wormald. The more immediate subject of the paper - Wormald's Geometry, Chapter IV, was then taken up. Of its three sections, the first only, that treating of the equality of triangles, was considered. On beginning any new subject, the first thing to be done is to thoroughly memorize all definitions and statements of principles, which should afterwards be recited by the pupil again and again. Before this is done, however, there is a certain kind and amount of "teaching" to be performed. It is to a great extent the object of Wormald's method, the large collection of explanations which precede each chapter, to supply this "teaching." And by carefully regarding the definitions, many good lessons may be learned from his text book by teachers, as well as by pupils.

The method adopted by Wormald in developing the idea of a definition by deducing the abstract from the concrete, the general from the particular, was then illustrated and contrasted with that formerly in use. After the definitions have been taught in the manner stated, the class may next be introduced to the propositions - the kernel of the subject.

A preliminary talk as a preface to each lesson was recommended, in which the truths afterwards to be stated in formal proposition should be explained in familiar terms so that their significance and application could be understood. By repeated experiments, the class is led to find true, in one or more cases, what will be shown by proof to be always true. The matter which Wormald supplies for this preliminary talk and his method of teaching it, was next taken up and illustrated. Care should be taken to procure neat and accurate workmanship. When drawings are necessary they should be placed on the board by the pupil, and afterwards taken from any source. It is an excellent plan to cause the pupils occasionally to go over the proof without the aid of a diagram. To young pupils, it is far more easy to learn the whole thing by rote, than to reason it out, and accordingly unless great pains are taken to prevent it, all teaching will be vitiated by this evil. Some observations were made as to the best means of avoiding this practice, amongst others it was most strongly recommended that the child's own judgment be appealed to. Having finished the theorem, the problems founded upon them should receive careful attention. Those who undertake the problems of geometry lose the previous point means of rendering the previous work intelligible, and of retaining it in the memory. When a series of propositions was finished, a careful and thorough review should take place, the nature of which was fully explained.

In closing Mr. Duke recapitulated the leading points he had made, and remarked that though it was necessary to gather together and to memorize facts, yet the teacher should always regard that as subordinate. The main purpose of all our education was to grasp principles, and it is only valuable in proportion to the great ideas it gives."

Mr. McCully thought Geometry was the most difficult of all subjects to teach, especially in the first awakening of the geometrical idea in the mind of the child. In Chapter 4th he thought objects, or paper triangles should be used. He had found it a good plan to place the figures before the children and let them write out the matter on their slates, and afterwards on the blackboard. The subject required a deal of illustration and teaching, both in the advanced and other classes.

Mr. Moir said he had listened to the paper with interest, but the study was not included in the course of country schools. The idea dealt with in Chapter IV was that of triangles, which exemplified the power of three. This might be illustrated by sticks of wood, two or four of which, whose ends were joined together, might be moved in any direction, while a third would render the frame fixed. Nothing strengthened the memory and reason so much as this science.

The Vice-President said he had previously introduced this subject to the In-

stitute, and had since been identified with it. The paper just read met with his approval. He thought Mr. Duke would have done himself more justice, however, had he illustrated his paper by using the black-board. It was evident that he clearly grasped Wormald's method, which was to first present abstract truths (axioms and theorems), by means of simple experiments, but the absence of the inductive system had been very hurtful. He thought that Wormald's Geometry was a hard book to teach. Mathematics could not be taught by rote, but the mathematical idea and the reasoning powers must be developed. When a boy could read mathematics, a great point was gained.

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