

SUMMER SCHOOL OF SCIENCE.

The Eighteenth Session of the Summer School of Science will be held in Charlottetown July 12th to 29th. This session bids fair to be the very best in the history of the school. The popularity of Prince Edward Island as a summer resort and the reputation of Charlottetown as a city of estuaries, are such that very many from the adjoining provinces and the Republic to the South will be attracted to this meeting. The School offers a very full and varied curriculum fully covering the different nature study subjects that are at the present demanding the attention of our teachers.

The several courses consist of the following:

Botany (Structural)—Plant Structures.—The general story of the evolution of plants will be presented. To understand any higher group one must study the lower forms related to it, and the attempt

of this course will be to trace the evolution of the plant kingdom by beginning with the simplest forms and noting the gradual increase in complexity until the highest forms are reached.

Lectures—

1. Introduction: great groups of plants; evolution of plants; the plant body; cells; reproduction.
2. The evolution of sex in plants.
3. Algae; the great groups; general characters; typical representatives of the groups.
4. Fungi; general characters; sub-divisions; moulds; mildews; rusts and smuts; mushrooms; bacteria; lichens.
5. The food of plants; saprophytes; parasites; symbiosis.
6. Moss plants; alternation of generations; great groups.
7. Fern plants; alternation of generations; great groups.
8. Gymnosperms; the plant body; fertilization; development of the embryo; the seed; great groups.
9. Angiosperms; the plant body; fertilization; development of the embryo; the seed; the fruit.
10. The flower; general characters; floral leaves; evolution of the flower; inflorescence.
11. Monocotyledons and dicotyledons; contrasting characteristics; important families; relative rank of different families; classification; nomenclature.
12. Differentiation of tissues; stems; roots; leaves.

Botany Field.—The course will consist of lectures and observations on the relations of plants to their surroundings. The only apparatus needed will be a small pocket lens and a sharp knife. No text book is required. An acquaintance with plants in field and garden, and some experience in examining and classifying plants will be of advantage. The occurrence of rare and interesting forms will be noted as far as possible, with the aid of local botanists; and the more advanced students are requested to bring for this purpose any manual of flowering plants, ferns, mosses, toadstools or seaweeds, with which they may be familiar. Efficient local leaders for the field excursions will, it is hoped, make the outdoor work the most profitable part of this course.

Chemistry.—This course will touch upon the following subjects: Physics of chemistry; nature of chemical changes; how known; conditions of chemical change; chemical equivalence; atomic theory, acid and alkali classification in chemistry; nomenclature; metal chemistry; gas chemistry; simple chemical operations; the test tube, the gas receiver, the retort, crucible and blowpipe; isomerism and molecular volume and molecular structure; laws of combinations and solutions.

The very simplest apparatus will be used, and an effort will be made to show the chief forms of chemical manipulation.

Drawing.—The course will consist of a series of lectures to teachers on "The Teaching of Drawing," illustrated with specimens of actual work by children of all ages from English schools. The work will be arranged to suit all the school grades from the kindergarten upwards.

Manual Training.—The course will open with a lecture on Manual Training; its various forms—wood work, metal work, cardboard modelling, clay modelling, wire work, etc.; their adaptability to different grades of schools and the kinds most suited to various grades. The succeeding lectures will consist of a short course of cardboard work designed to show what may be done with this subject in small schools, which have not the equipment necessary for wood work, and to enable teachers to make a practical acquaintance with the subject, which will include:

1. Drawing.—The educational value of this part of the work; the uses of the instruments; a dimensioned drawing of each model made.
2. Flat Models.—Cutting with scissors and knife; folding, binding and pasting.
3. Solids.—Development, scoring, tying, etc.

Students should provide themselves with pencil, ruler, knife and scissors. Other material will be supplied.

Geology.—The purpose of this course will be to awaken upon the part of teachers and others, a more intelligent appreciation of the world around them and the changes in progress therein. Experience having shown that in the great majority of cases no previous attention had been directed to such subjects, their treatment will be made as simple as possible and in a manner most likely to be of service in ordinary school work.

Kindergarten.—The work in this class will be arranged for teachers of little children in primary grades or miscellaneous schools.

Short courses will be given in paper-folding, paper-cutting of various kinds, and clay.

Some time will be devoted to practical suggestions on color teaching and the study of form.

Also, the following will be available:

Largest Stock on P. E. I.

Large variety—not too much of one kind, all new. If you buy at Paton's you will not have the same FURNITURE as your neighbor. We secure the very newest of its kind. If there is a pretty design in a Parlor Table, a Chair, a Chiffonier, a Bureau, or Hall Stand, etc., etc., you will find it here, and when sold it's replaced with something different. That's why the stock ALWAYS PRESENTS A NEWNESS AND FRESHNESS that cannot be had elsewhere. That's why you ought to see Paton's Furniture after you have seen all that's to be seen in town.

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1. A good selection of school songs and finger-plays.
 2. Suggestions for recital and interesting exercises to be given between short periods of work.
 3. Plans for simple nature study with hints for desk work to correspond.
- Kindergarten wishing help in their own line of work will have special time given them by the instructor.
- English Literature.**—Shakespeare's "Julius Caesar" will be read and discussed in the class. George Eliot's "Silas Marner" will be assigned for reading with reference to notes and questions furnished by the instructor, and towards the end of the session it will be taken up for a unit.
- If as many as five students desire it, a class will be formed for the consideration of methods of teaching literature. The work will be based on selections from the school readers. The object will be to afford the help to teachers in their own work in the classroom.
- Physics and Meteorology.**—First Year. Physical properties of matter, such as weight, density, porosity, divisibility, cohesion, elasticity, capillarity, etc.
- Dynamics of Fluids.** Barometer, siphon pump, specific gravity, motion, energy, heat, conduction, convection, radiation, thermometer, light, sound, electricity. Experiments will be conducted as far as possible with the simplest apparatus. Students will find it to their advantage to have read beforehand Gage's Introduction to Physical Science, and Davis' Meteorology, or any other up-to-date work on the subject.
- Human Physiology and Hygiene.**—(1) These talks will be illustrated with fresh material and actual experiment. Many slides prepared from different tissues will be shown by means of the microscope and projection microscope. The chief object in each talk will be to present the subject in such a way as would interest pupils from the sixth grade up in this subject. No previous book knowledge on the subject is essential, but wide open eyes and some recollection of every day phenomena with regard to our own bodies will be necessary for first-rate work. It will be taken for granted that students will be

(Continued on page 3.)

PRACTICAL BUSINESS EXPERIENCE

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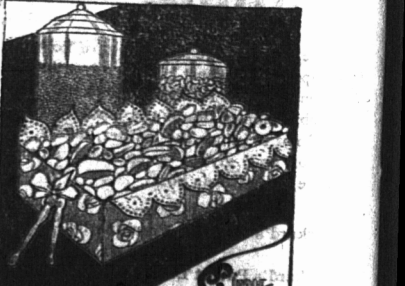
One of the correct things for men's wear is a heavy soled box-calf with wide toe, also a Patent Calf on same last—four fifty, \$4.50.
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"I bought six boxes of Dodd's Dyspepsia Tablets and six of Dodd's Kidney Pills, and before I had finished taking them I could eat most anything and sleep comfortably." There is no need to comment on a statement like this. It's true. What was done for Mrs. Bradley has been done for thousands of others. Dodd's Dyspepsia Tablets will do it for you.

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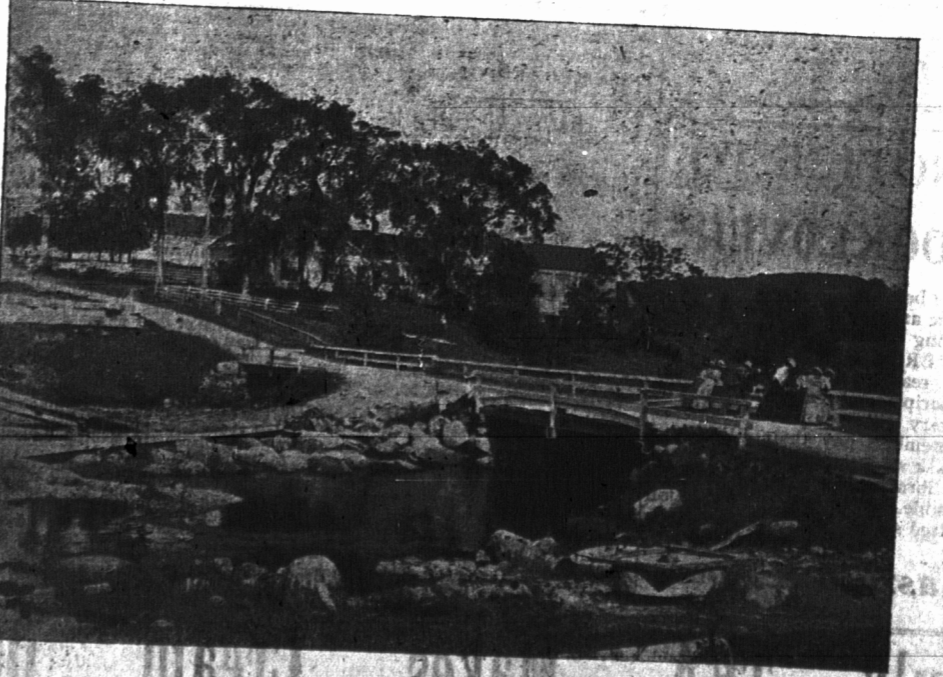
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is to sleep on one of our MATTRESSES. We have a very fine line of all grades.

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WELCOME TO CHARLOTTETOWN. Scene at the mouth of Charlottetown harbor.



SCENES OF THE SUMMER SCHOOL. An outing at Moore's Mills, St. Stephen, N. B.