= GRIP =

# THE HIGH SCHOOL

### DRAWING: COURSE

Authorized by the Minister of Education.

The course is now complete:

No. I-FREEHAND,

No. 2-PRACTICAL GEOMETRY No. 3--LINEAR PERSPECTIVE,

No. 4-OBJECT DRAWING,

No. 5-INDUSTRIAL DESIGN.

These books are all uniform in size and style, and constitute a complete uniform series. The same plan is followed through them all—the Text, the Problems, and opposite the Problems, in each case, the Exercises based upon them. The illustration is upon the same page with its own matter, and with the exercise, in every case, is a space for the student's work. Each copy, therefore, is a complete Text-book on its subject, and a Drawing Book as well, the paper on which the books are printed being first-class drawing paper. The student using these books, therefore, is not obliged to purchase and take care of a drawing book also. Moreover, Nos. 1, 4 and 5 are the only books on their subjects authorized by the Department. Therefore, if the student buys the full series, he will have a uniform, and not a mixed series, covering the whole subjects of the examinations, and edited by Mr. Arthur J. Reading, one of the best authorities in these subjects in this country, and recently Master in the School of Art.

Each book is in the direct line of the curricu-

The examinations in High School Drawing will be set from the authorized books.

PRICE, ONLY 15c. PER COPY.

The Grip Printing & Publishing Co. 28 Front St. W., Toronto.

# NIAGARA RIVER LINE

PALACE STEAMERS

### CHICORA AND CIBOLA

in connection with Vanderbilt system of railways leave Toronto four times daily (except Sunday) for Niagara and Lewiston, connecting with express trains on New York Central and Michigan Central Railways, for Falls, Buffalo, New York, Philadellia, Cleveland and all points east and west.

Leave Yonge Street Whart, 7 a.m., (1 a.m., 2 p.m.,

15 p.m. Tickets at all principal offices IOF

JOHN FOY, Manager.



STEAMER

Daily trips to

#### ST. CATHARINES.

The fine Steamer "Lakeside" leaves Milloy's at 3-40 p.m. (excepting Wednesdays and Saturdays at Niagara Falls and Buffalo.
Take the "Lakeside" every Wednesday and Saturday at 2 o'clock from Milloy's wharf, round trip 50 cents, returning at 10 p.m.

cents, returning at 10 p.m.

## No More Rheumatism Union Bank of Canada.

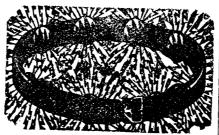
### THE OWEN Electric Belt

AND APPLIANCE CO.

HEAD OFFICE, CHICAGO.

Incorporated June 17, 1887, with a oash Capital of \$50,000.00.

PATENTED IN CANADA DECEMBER 1877 PATENTED IN U.S. JUNE 1877.



71 King Street West, Toronto, Ont-C. C. PATTERSON, Mgr. for Canada,

#### Electricity as Applied by The Owen Electric Belt and Appliances

Is now recognized as the greatest boon offered to suffering humanity. It has, does and will effect cures in seemingly hopeless cases where every other known means has failed. By its steady, soothing current, that is easily felt, it will cure:

Rheumatism, Rneumatism, Sciatica, Spinal Diseases, General Debility, Neuralgia, Lumbago, Nervous Complaints, Spermatorrhœa, Dyspepsia,

Liver Complaint, Female Complaints Impotency, Constipation, Kidney Disease, Varicocele, Sexual Exhaustion, Epilepsy or Fits, Urinary Diseases, Lame Back.

#### We Challenge the World

To show an Electric Belt where the current is under To show an Electric Belt where the current is under the control of the patient as completely as this. We can use the same belt on an infant that we would on a giant by simply reducing the number of cells. Ordin-ary belts are not so.

#### Beware of Imitations and Cheap Belts.

We desire to warn the public against purchasing worthless imitations of the Genuine Owen Electric Belt that has stood the test of years and has a continental reputation. The portrait of Dr. A. Owen is embossed in gold upon every belt and appliance manufactured by us. None genuine without it.

#### Geo. C. Pitzer, M.D.

Protessor of the Theory and Practice of Medicine in the American Medical College, St. Louis, author of "Electricity in Medicine and Surgery," says:—

"Sr. Louis, Mo., June 10, 1886.
"I take pleasure in stating that I have examined and tested Dr. Owen's Electro-Galvanic Belt and appliance, and do not hesitate to say that it is the most practical and efficient of all the galvanic belts I have used in my practice. have used in my practice.
"Geo. C. Pitzer, M.D., 1110 Chambers St."

Dr. Pitzer is considered the best authority we have in the world on electricity.

Send 6c. for Illustrated Catalogue of Information, Testimonials, etc.

THE OWEN ELECTRIC BELT CO. 71 King St. West, Toronto, Ont.

Mention this paper.

CAPITAL PAID UP

BOARD OF DIRECTORS:

ANDREW THOMSON, Esq., President.
E. J. PRICE, Esq., Vice-President.
HON. THOS. McGREEVY, D. C. THOMSON,
Esq., E. GIROUX, Esq., E. J. HALE, Esq., SIR
A. T. GALT, G.C.M.G.

E. E. WEBB QUEBEC. Cashier.

#### BRANCHES.

Alexandria, Ont.; Iroquois, Ont.; Lethbridge, N.W.T.; Montreal, Que.; Ottawa, Ont.; Quebee, Que.; Smith's Falls, Ont.; Toronto, Ont.; West Winchester, Ont.; Winnipeg, Man.

#### FOREIGN AGENTS.

FOREIGN AGENTS.

London—The Alliance Bank (Limited), Liverpool—Bank of Liverpool (Limited), New York—National Park Bank. Boston—Lincoln National Bank. Minneapolis—First National Bank.

Collections made at all points on most favorable terms. Current rate of interest allowed on deposits.

J. O. BUCHANAN, Manager, Toronto.

### THIRD EDITION!

Indispensable to every live Teacher.

# Practical Problems

#### ARITHMETIC.

For First, Second and Third Classes.

#### By JAMES WHITE, Public School Teacher

EDMONTON, ONT.

This book has been prepared specially to suit the convenience of Public School Teachers. It contains about 700 Practical Problems suitable for First, Second and Third Classes in Public Schools. It is very carefully graded, and each principle required to be taught is introduced in logical order. It receives the hearty approval of Teachers and Inspectors.

### Read their Opinions.

From Allan Embury, Esq., Inspector, Peel.

I have examined this little book of Arithmetical Problems, and can give it an unqualified endorsation. The questions are carefully graded, and are specially suited to the wants of our over-worked teachers who have not always the time to devote to the preparation of exercises upon the various subjects of the school curriculum. The questions are not stated in the form of propositions; but their statement is incidental, leaving the inner connection of the problems to be discovered by the pupil himself; and in this important feature lies their special adaptability as an educational force. I heartily recommend this book to all teachers wishing to economize time and labor in their preparation for ordinary school work.

From E. TROUGHT, Esq., Teacher, Member County Board of Examiners, Inglewood.

Board of Examiners, Inglewood.

I have examined with some care Practical Problems in Arithmetic for First, Second and Third Classes. by Mr. White, Edmonton. Without the slightest hesitation I say that they are the best I have ever seen—the best in selection, the best in grading, and above all, the best for developing the reasoning powers of the child, and for exercising his ingenuity. A special feature of the grading is that principles which have been introduced are being constantly made nase of in the succeeding problems which are in their turn introducing new principles, so that the whole work may be said to be one unconscious review. It is a great boon to Teachers.

Price, Bound in Cloth, 25 cts.

ADDRESS

Grip Printing & Publishing Co TORONTO.