

101. Wood Cylinder, and weight for sinking when the air is removed from the pores.....	\$0 30
102. Cartesian Bottle Imp, with a glass jar, 12 inches by 3 inches, on foot, with a piece of caoutchouc, 6 inches square, to tie over the mouth of the jar when the imp is put into the water, \$3. 25, and.....	1 10
103. Jar, with foot 15 inches high, 2 inches diameter, with light glass flask to swim in the jar, to illustrate specific gravity...	0 60
104. Bacchus Experiment—a pair of narrow bottles connected by a tube, to show the transfer of liquids from one vessel to another, by the pressure of air under the receiver of Air Pump.....	0 40
105. Bacchus Experiment with brass caps, &c.....	1 80
106. Fire Syringe or Pneumatic Tinder Box, for igniting tinder by compressed air.....	0 90
107. Magic Bottle, from which water will flow through the bottom when the stopper is removed.....	0 90
108. Perforated Tin Bottle to show the upward pressure of the air	0 60
109. India Rubber Spherical Bags, for expansion; various prices. Japanned Tin Oiler.....	0 45
110. Barometer Tube, 31 inches long, with small funnel for performing the Torricellian experiment.....	0 50
111. Brass Stop-cocks, Connecters, &c.; various prices.	

XIV. Literary and Scientific Intelligence.

— PENN AND MACAULEY.—Lord Macauley has replied to Mr. Hepworth Dixon on the subject of William Penn and the pardon-brokerage at Taunton. An elaborate note to the second volume of the new edition of his History of England sets forth the argument. "If it be said (his lordship concludes) that it is incredible that so good a man should have been concerned in so bad an affair, I can only answer that this affair is very far indeed from being the worst in which he was concerned. For these reasons I leave the text, and shall leave it, exactly as it originally stood."

— PERPETUAL MOTION.—The editor of the London *Builder* thinks the following instances come as near perpetual motion as any one can desire: In the rotunda at Woolwich Barracks there is, he says, a clock moved by machinery, which has been going for more than forty years. He further states that he knows a gentleman who has had a watch in his possession for more than 30 years, hermetically sealed, which there is no means of winding, which tells the day of the week, the hours, minutes, seconds, months, and he believes years, and how far you walk in the day. It cost £500, and was made by a Frenchman in Paris. It was left with Mr. Oldham, of the Bank of Ireland, for six weeks, and locked up in his strong box, when the gentleman went into the country, about 25 years ago, and the watch goes well, he believes, to this moment.

PARIS LIBRARIES.—Paris at present possesses 35 large libraries. Some are public, others only partly so, and the greater number are exclusively devoted to certain establishments. The public libraries are: the Biblio. thèque Imperiale, with 1,400,000 printed volumes, about 300,000 pamphlets, and 80,000 manuscripts; the Arsenal, 220,000 volumes and 6,000 manuscripts; Sainte Genevieve, 150,000 volumes, 4,000 manuscripts; Mazarin, about 120,000 volumes, 5,000 manuscripts; the Sorbonne, 80,000 volumes; the city of Paris, 65,000 volumes, 300 manuscripts; the Ecole de Medicine, 40,000 volumes; the Museum of Natural History at the Jardin des Plantes, 35,000 volumes; the Invalides, 30,000 volumes; the Conservatoire des Arts-et Metiers, 20,000 volumes; and the Conservatoire de Musique, 8,000 volumes.

XV. Departmental Notices.

NORMAL SCHOOL TEACHERS.

The present Session of the Normal School closes on the 15th of April. The next Session will commence on the 15th of May. Applications should be made in person not later than during the first week of the Session.

PUBLIC SCHOOL LIBRARIES.

The Chief Superintendent of Education is prepared to apportion *one hundred per cent.* upon all sums which shall be raised from local sources by Municipal Councils and School

Corporations, for the establishment or increase of Public Libraries in Upper Canada, under the regulations provided according to law. Remittances must not be in less sums than five dollars.

PRIZES IN SCHOOLS.

The Chief Superintendent will grant one hundred per cent. upon all sums not less than five dollars transmitted to him by Municipalities or Boards of School Trustees for the purchase of books or reward cards for distribution as prizes in Grammar and Common Schools.

SCHOOL MAPS AND APPARATUS.

The Chief Superintendent will add 100 per cent. to any sum or sums, not less than five dollars, transmitted to the Department from Grammar and Common Schools; and forward Maps, Apparatus, Charts, and Diagrams to the value of the amount thus augmented, upon receiving a list of the articles required by the Trustees. In all cases it will be necessary for any person, acting on behalf of the Trustees, to enclose or present a written authority to do so, verified by the corporate seal of the Trustees. A selection of articles to be sent can always be made by the Department, when so desired.

SCHOOL REGISTERS.

School Registers are supplied gratuitously, from the Department, to Grammar and Common School Trustees in Cities, Towns, Villages and Townships by the County Clerks—through the local Superintendents. Application should therefore be made direct to the local Superintendents for them, and not to the Department. The present year's supply for Common Schools has been sent to the County Clerks. Those for Grammar Schools have been sent direct to the head Masters.

PENSIONS—SPECIAL NOTICE TO TEACHERS.

Public notice is hereby given to all Teachers of Common Schools in Upper Canada, who may wish to avail themselves at any future time of the advantages of the Superannuated Common School Teachers' Fund, that it will be necessary for them to transmit to the Chief Superintendent, without delay, if they have not already done so, their annual subscription of \$4, commencing with 1854. The law authorizing the establishment of this fund provides, "that no teacher shall be entitled to share in the said fund who shall not contribute to such fund at least at the rate of one pound per annum." This proviso of the law will be strictly enforced in all cases; and intimation is thus early given to all Teachers, who have not yet sent in their subscriptions, to enable them to comply with the law, and so prevent future misunderstanding or disappointment, when application is made to be placed as a pensioner on the fund.

PUBLIC SCHOOLS--CITY OF TORONTO.

THE Office of LOCAL SUPERINTENDENT of the Public Schools of the City of Toronto, having become vacant by the retirement therefrom of the present Incumbent, and the Board of Trustees having decided that said Office shall hereafter be separated from that of Secretary to the Board.

Prepaid Applications (with Testimonials) for the aforesaid situation of Local Superintendent will be received by the Undersigned until the 1st of May, proximo.

The Gentleman who may be selected to fill the vacancy will be required to devote his time and attention exclusively to the duties appertaining to the Office.

Salary not to exceed £300 (\$1,200) per Annum.

By order of the Board of School Trustees.

G. A. BARBER,
Local Superintendent and Secretary.

Toronto, Western Insurance Buildings.

29th March, 1858.

ADVERTISEMENTS inserted in the *Journal of Education* for three cents per word, which may be remitted in postage stamps, or otherwise.

TERMS: For a single copy of the *Journal of Education*, \$1 per annum; back vols., neatly stitched, supplied on the same terms. All subscriptions to commence with the January number, and payment in advance must in all cases accompany the order. Single numbers, 12½ cents each.

All communications to be addressed to Mr. J. GEORGE HODGINS,
Education Office, Toronto.