

the building, are placed louvres, or ventilators, made of galvanised iron . . . by the opening or closing of these louvres—a service readily performed—the temperature of the Crystal Palace is so regulated, that on the hottest day of summer, the dry parching heat mounts to the roof to be dismissed, whilst a pure and invigorating supply is introduced at the floor in its place, giving new life to the thirsty plant, and fresh vigour to man.

“The total length of columns employed in the construction of the main buildings and wings would extend, if laid in a straight line, to a distance of fifteen miles and a quarter. The total weight of iron used in the main building and wings amounts to 9,641 tons 17 cwt. 1 quarter. The superficial quantity of glass used is 25 acres; and if the panes were laid side by side, they would extend to a distance of 48 miles; if end to end, to the almost incredible length of 242 miles. To complete our statistics, we have further to add, that the quantity of bolts and rivets distributed over the main structure and wings weighs 175 tons 1 cwt. 1 qr.; that the nails hammered in the Palace increased its weight by 103 tons 6 cwt.; and that the amount of brick-work in the main building and wing, is 15,391 cubic yards.

“From the end of the south wing to the Crystal Palace Railway station is a colonnade 720 feet long, 17 feet wide, and 18 feet high. It possesses a superficial area of 15,500 feet, and the quantity of iron employed in this covered passage is 60 tons; of glass, 30,000 superficial feet.”

THE FIGURE NINE.—A correspondent over the signature of “Ledger,” sends a Cincinnati editor the following; “I have just read in your paper what has often before been published, respecting the curious properties of the figure 9. One of these properties is of importance to all book-keepers and accountants to know, and which I have never seen published. I accidentally found it out, and the discovery to me, (though it may have been well known to others before,) has often been of essential service in settling complicated accounts. It is this: The difference between any transposed number is always a multiple of 9; for instance suppose an accountant or book-keeper cannot prove or balance his accounts—there is a difference between his debits and credits, which he cannot account for, after careful and repeated additions. Let him then see if this difference can be divided by 9 without any remainder. If it can, he may be assured that his error most probably lies in his having somewhere transposed figures; that is to say, he has put down 92 for 29, 83 for 38, &c., with any other transposition. The difference of any such transposition is always a multiple of 9. The knowledge of this will at once direct attention to the true source of error, and save the labour of adding up often long columns of figures. The difference between 92 and 29 is 63, or 7 times 9; between 83 and 38 is 45, or 5 times 9; and so on between any transposed numbers.

EXAMINATION OF COMMON SCHOOL TEACHERS.

THE BOARD OF PUBLIC INSTRUCTION for the United Counties of YORK and PEELE hereby gives Notice, that an EXAMINATION of COMMON SCHOOL TEACHERS will take place on TUESDAY, the 29th day of AUGUST next, at 9, A.M., at the following named places:—

At the New COURT-HOUSE, City of Toronto, for the City of Toronto and the Townships of York, Etobicoke, and Scarboro’;—

At BRAMPTON, for the County of Peel:—

At NEWMARKET, for the Townships of Whitechurch, East Gwillimbury, North Gwillimbury, and Georgina:—

At RICHMOND HILL, for the Townships of King, Markham, and Vaughan.

Note.—The General Examination will for the future be Annual, at or about the time above specified. There will be no Examination as formerly in December.

All Teachers and others, presenting themselves for Examination, will be required to select the particular class in which they propose to pass, and previous to being admitted for Examination, must furnish to the Examining Committee satisfactory proof of good moral character; such proof to consist of the certificate of the Clergyman, whose ministrations the candidate has attended; and in cases where the party has taught in a Common School, the certificate of the Trustees of the school section will be required. Each candidate is required if possible to attend the Examination in his own school circuit.

First class Teachers not required to be re-examined.

The Board will meet at the Court-House on Tuesday, the 26th September, next, at noon, for the purpose of receiving the reports of the several Examining Committees, licensing Teachers, and for other business.

(Signed,) JOHN JENNINGS,
Chairman.

Office of the County Board,
Toronto, 17th July, 1854.

CLASSICAL MAPS, FOR GRAMMAR SCHOOLS &c., as follows:—
NATIONAL: Orbis Veteribus Notus, Italia Antiqua, Græcia Antiqua. Size 5 feet 8 inches by 4 feet 4 inches, 15s. each. Asia Minor, Vel Antiqua, and Terra Sancta, 4: 4 x 2: 10 a 8s. 9d.
JOHNSTON'S: same as National. Size 4 feet 2 inches by 3 feet 2 inches, a 11s. 10½ each.
Scripture Maps of various sorts and of different prices.
Atlases of Ditto ditto ditto ditto.

NEW MAP OF CANADA.

THE EDUCATIONAL DEPARTMENT having recently prepared a new and accurate MAP of BRITISH AMERICA, according to the latest Parliamentary divisions and corrections, the following copies have been ordered for the Schools in the Counties referred to:—

York, Ontario and Peel 350 copies.
Middlesex (reported by the County Clerk as purchased) 200 “
Prince Edward 55 “

The size of the Maps is 3 feet by 2 feet 6 inches. Price 5s. 7½d. per single copy, or 5s. for any quantity over fifty copies. It is also the intention of the Department to have this corrected Map of British America published in the National Series and in Johnston's Series, and of the same dimensions, in the course of the autumn. The price, size, and style, will be the same as are now the maps of either series. Parties are cautioned against purchasing any copies of the new Map of Canada recently published in New York, except those issued by this department, as an inferior and incorrect edition is in circulation, and for sale by agents.

MAPS OF CANADA, GLOBES, & APPARATUS.

FOR SALE at the Depository in connection with the Education Office, Toronto:—

Maps—Canvas, Rollers and Varnished. £ s. d.

1. Bouchette's Map of British North America with latest County divisions, statistics, &c. 7 ft. 6 in., by 4 ft. 3 in. 2 10 0
2. A new Map of Canada, New Brunswick, and Nova Scotia, with latest County divisions, coloured 3 ft. by 2 ft. 6 in. 0 5 7½
3. Outline Map of British America, with names of Counties, 2 ft. 4 in. by 1 ft. 10 in. 0 5 0
4. Smith's Map of Upper Canada, with names of Counties, Cities, Towns, Villages, &c., (engraved on copper,) 2 ft. by 1 ft. 6 in. 0 3 0

PELTON'S PHYSICAL OUTLINE MAPS, as follows:—

1. Political and Physical Map of Western Hemisphere . . . 7 feet by 7 feet.
 2. Political and Physical Map of Eastern Hemisphere . . . 7 feet by 7 feet.
 3. Map of the United States, British Provinces, Mexico, Central America, and the West India Islands. 7 feet by 7 feet.
 4. Map of Europe 6 feet by 6 feet 10 inches.
 5. Map of Europe 6 feet by 6 feet 8 inches.
 6. Map of South America and Africa 6 feet by 7 feet.
- Price of the series with Key \$20.

These maps in connection with their other general features, present the Geological Formation of the World, its Oceanic Currents, Atmospheric Changes, Isothermal Lines, Vertical Dimensions, Distribution of Rain, Electric, Magnetic, Volcanic, and Atmospheric Phenomena, &c., &c., in a manner so simple and beautiful as to be easily taught and comprehended.

JOHNSTON'S Maps beautifully engraved and colored, consisting of the two Hemispheres, Europe, Asia, and Africa, &c., 11s. 10½ each.

CHRISTIAN KNOWLEDGE SOCIETY Maps. Size—a 15s. each, world 17s. 6d.)

CHAMBERS' series of Maps, 15s. each, (World 17s. 6d.)

NATIONAL series of Maps, 15s. each, (World 17s. 6d.)

Globes.

1. Cornell's 9 inch Globes, with Stand, each 2 10 0
2. Do. 5 do. do. do. do. 0 17 6
3. Holbrook's 5 inch do. do. do. 0 6 3
4. Copley's 16 inch do., per pair, 10 0 0
5. Franklin, Terrestrial and Celestial 10 inches with walnut frame and case per pair 5 0 0
6. Do. do. do. with bronzed frame and case per pair 5 10 0
7. Do. do. do. with Mahogany high frames and case per pair 8 0 0
8. Do. do. 6 inches with bronzed frame and case per pair 2 0 0

ADVERTISEMENTS inserted in the Journal of Education for one half-penny per word, which may be remitted in postage stamps, or otherwise.

TERMS: For a single copy of the Journal of Education, 5s. 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, 7½d. each.

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

TORONTO: Printed by LOVELL & GIBSON, Corner of Yonge and Melinda Streets.