

## UPPER SCHOOL.

- GROUP A.—English Language.**—Critical Reading of portions of the Works of Authors of the Sixteenth and Seventeenth Centuries, to be prescribed from time to time by the Education Department. For 1876 and the former half of 1877, Shakespeare's Tragedy of "Macbeth" and Milton's "Ill Penseroso" have been prescribed.\* Composition, Reading, and Elocution: the subject generally, as far as required for Senior Matriculation with Honours in the University.
- GROUP B.—Mathematics.**—(a) Arithmetic; The Theory of the subject; Application of Arithmetic to complicated business transactions, such as Loans, Mortgages and the like.  
(b) Algebra; Quadratic Equations, Proportion, Progression, Permutations and Combinations, Binomial Theorem, Properties of Numbers, etc., as far as required for Senior Matriculation with Honours.  
(c) Geometry; Euclid, Books I, II, III, IV, Definitions of Book V, Book VI, with Exercises; Analytical Plane Geometry.  
(d) Trigonometry, as far as required for Senior Matriculation with Honours.  
(e) Natural Philosophy: Dynamics, Hydrostatics and Pneumatics.
- GROUP C.—Modern Languages.**—(a) *French*; Grammar and Exercises; Corneille, Horace; Dumas, Tulipe Noire; De Staël, L'Allemagne, Première Partie; Molière, L'Avare and Les Fourberies de Scapin; Montalembert, De L'Avenir Politique de L'Angleterre; Translation from English into French; Conversation, etc., as far as is required for Senior Matriculation with Honours.  
(b) *German*; Grammar and Exercises; Musæus, Stumme Liebe; Schiller, Lied von der Glocke, Neffe als Onkel and Wallenstein's Lager; Fouqué, Aslauga's Ritter; Chamisso, Peter Schlemihl; Outlines of German Literature, 1300-1670; Translation from English into German; Conversation.
- GROUP D.—Ancient Languages.**—(a) *Latin*; Grammar; Cicero, Pro Lege Manilia and in Cæcilium; Ovid, Fasti, Book I, exclusive of vv. 300-440; Virgil, Æneid, Books II and VII, and Georgics, Book I; Cæsar, Bell. Gall. Book IV, cc. 20-36, and Book V, cc. 8-23; Horace, Odes, Books I and III; Livy, Book IX; Translation from English into Latin Prose, etc., as far as is required for Senior Matriculation with Honours.  
(b) *Greek*; Grammar; Xenophon, Anabasis, Book I; Homer, Iliad, Books I and XII, Odyssey, Books IX and XII; Demosthenes, Philippics I and II, against Aphobus, I and II; Herodotus, Book I, cc. 26-92, etc., as far as is required for Senior Matriculation with Honours.
- GROUP E.—Physical Science.**—(a) Chemistry; Heat—its sources; Expansion; Thermometers—relation between different scales in common use; Difference between Temperature and Quantity of Heat; Specific and Latent Heat; Calorimeters; Liquefaction; Ebullition; Evaporation; Conduction; Convection; Radiation. The chief Physical and Chemical Characters, the Preparation and the characteristic Tests of Oxygen, Hydrogen, Carbon, Nitrogen, Chlorine, Bromine, Iodine, Fluorine, Sulphur, Phosphorus and Silicon.  
Carbonic Acid, Carbonic Oxide, Oxides and Acids of Nitrogen, Ammonia, Olefant Gas, Marsh Gas, Sulphurous and Sulphuric Acids, Sulphuretted Hydrogen, Hydrochloric Acid, Phosphoric Acid, Phosphuretted Hydrogen, Silica.  
Combining proportions by weight and by volume; General Nature of Acids, Bases and Salts: Symbols and Nomenclature—The Atmosphere—its constitution; Effects of Animal and Vegetable life upon its composition; Combustion; Structure and Properties of Flame; Nature and Composition of ordinary Fuel.  
Water—Chemical Peculiarities of Natural Waters, such as Rain Water, River Water, Spring Water, Sea Water.  
(b) Botany; an introductory course of Vegetable Anatomy and Physiology, illustrated by the examination of at least one plant in each of the Crowfoot, Cress, Pea, Rose, Parsley, Sunflower, Mint, Nettle, Willow, Arum, Orchis, Lily and Grass Families; Systematic Botany; Flowering Plants of Canada.  
(c) Physiology; General view of the Structure and Functions of the Human Body; The Vascular system of the Circulation; the Blood and the Lymph; Respiration; the Function of Alimentation; Motion and Locomotion; Touch, Taste, Smell, Hearing and Sight; the Nervous System.
- GROUP F.—History and Geography.**—(a) History; English, the special study of the Tudor and Stuart Periods; Roman, to the death of Nero; Grecian, to the death of Alexander.  
(b) Geography, Ancient and Modern.
- Masters will be at liberty to take up and continue in the

Upper School any subject from the Lower School that they may think fit.

Every pupil in the Upper School must take Group A, Arithmetic, Algebra as far as Progression, History, and two other subjects from those included in Groups C, D and E. In cases of doubt, the Master shall decide. Candidates preparing for any examination, shall be required only to take the subjects prescribed for such examination.

## II. THE SEMI-ANNUAL APPORTIONMENT OF THE GRANT, ACT 37 VICTORIA, CAP. 27, SECTION 66.

The grant will be distributed as follows:

I. *A part in the payment of a fixed allowance to each School, in order that the smaller schools may be assured of a certain degree of stability.*

II. *A part on the basis of average attendance.*

Each High School will receive a grant per unit of average attendance, equal to the grant per unit of average to the Public Schools. At present the annual grant per unit to the Public Schools is about one dollar; to the High Schools heretofore about sixteen dollars.

III. *A part on the results of inspection.*

The sum of say ten thousand dollars will be distributed amongst the schools, according to their efficiency as determined by the report of the Inspectors. In classifying the schools with a view to the distribution of the part of the grant which it is proposed to apportion on the results of the inspection, account will be taken of the following:

(a) School accommodation, condition of school premises, general educational appliances (maps, apparatus, &c).

(b) Number of masters employed as compared with the number of pupils and classes, qualifications of masters, character of the teaching, etc.

(c) Character of the work done between the two limits mentioned below; so that any school which, owing to the operation of special causes, may prepare but few pupils to pass the "Intermediate," will nevertheless be rewarded for the thorough work they may do below this higher limit.

(d) The quantity and quality of the work which may be done beyond the higher limit, i.e. by those pupils who shall continue their studies in the higher course prescribed for those who pass the Intermediate Examination.

(e) Government, Discipline, General Morale.

IV. *A part will be distributed on the results of an "Intermediate Examination"† of the nature following:*

[1.] The Examination will be instituted at a point about midway between the beginning and the end of the High School course, for promotion from the lower to the upper forms. It will, on the whole, be equal in point of difficulty to that which candidates for second-class certificates now undergo. Pupils that pass this examination will form the Upper School; while those who have not passed it will form the Lower School, in any High School or Collegiate Institute.

[2] Candidates for promotion from the Lower School to the Upper School will be examined in English Grammar and Etymology, Reading, Dictation, Composition, Writing, Arithmetic, Euclid, Algebra, English and Canadian History, Geography, and in one of the following branches or groups:

[a] Latin; [b] French; [c] German; [d] Natural Philosophy, Chemistry and Book-keeping.

[3] The part of the grant which it is proposed to distribute on the results of this "Intermediate Examination" will be apportioned on the basis of the average daily attendance of the pupils in the Upper School, it being understood that pupils who pass the "Intermediate" shall rank as "Upper School Pupils" for the time they have attended during the half year preceding the Examination.

\* NOTE.—Editions of these are on sale at the Depository Branch of the Education Department.

† At the Intermediate Examination in 1877, papers will be sent in English Grammar and Etymology, English Literature, Dictation, Composition, Arithmetic, Euclid, Algebra, Roman, English and Canadian History, Geography, Latin, French, German, Chemistry, Natural Philosophy and Book-keeping. No candidate must take more than one of the four optional subjects referred to in IV (2) at this examination. All Candidates whether male or female must take Euclid.

Candidates who take French will be examined in De Fivas' Elementary Reader and the Sixth Book of Voltaire's Charles XII. Candidates who select Latin as their optional subject and who may be reading Horace, Cicero, Livy, Ovid, or some book of Cæsar or Virgil, other than the one prescribed, with a view to a University or professional Examination, need not be examined in Cæsar at the Intermediate Examination, provided they satisfy the visiting Inspector that their knowledge of Latin is sufficient to justify him in accepting their work in that subject as equivalent thereto. All classical candidates will, however, be examined in Virgil, Latin Grammar, and translation in Latin; and no exemption granted during the former half-year will be valid unless renewed.

Although Music and Drawing will form no part of the Intermediate Examination in 1877; yet the schools in which these subjects are properly taught will receive credit therefor in the report on results of inspection referred to in III (c) and (d) of the above.