

PROGRAMME of Entrance Examination, &c.—(Continued.)

SUBJECTS.	FOR ENTRANCE INTO JUNIOR DIVISION.	FOR SECOND CLASS CERTIFICATE IN JUNIOR DIVISION, OR FOR ENTRANCE TO SENIOR DIVISION.	FOR ORDINARY FIRST CLASS CERTIFICATE IN SENIOR DIVISION.
ALGEBRA	None	Definitions, Addition, Subtraction, Multiplication and Division. Use of Brackets, Decomposition of Trinomials, Resolution into Factors, Involution, Square of Multinomials, Expansion of $(a+b)^n$, Evolution, Greatest Common Measure, Least Common Multiple, Fractions, Interpretation of Symbol so $\frac{0}{0}$, $\frac{a}{0}$, $\frac{0}{a}$, $\frac{0}{0}$, and $=$, Simple Equations.	Review past subjects of Junior Division, Indices, Surds, Quadratic Equations, Indeterminate Equations, Arithmetical, Geometrical and Harmonical Progression, Ratio, Proportion, Variation, Permutations, Combinations, Binomial Theorem, Notation, Decimals, Interest, &c., Properties of Numbers, Continued Fractions, Exponential Theorem, Logarithms, Algebraic Series, Cubic and Biquadratic Equations.
EUCLID	None	Books I and II with Exercises (Potts).	Books III, IV, VI and Definitions of Book V. Exercises on Six Books (Potts.)
NATURAL PHILOSOPHY.	None	Properties of Matter, Statics, Hydrostatics, Dynamics, and Hydrodynamics, Human Physiology.	Heat, Light, Electricity, Galvanism, Magnetism, Optics and Acoustics, Vegetable Physiology, General View of Geology.
CHEMISTRY	None	None.	Constitution of Matter, Chemical Nomenclature, Symbols, Laws of Combination, Chemical Affinity, Crystallization, Oxygen, Hydrogen, Nitrogen, Carbon, Sulphur, Phosphorus, Chlorine, Calcium, Aluminium, Silicon, Potassium, Sodium, Iodine, Manganese, Magnesium, Iron, Lead, Fluorine and their principal compounds, Nature of Soils, Of Organic Bodies, Germination of the Seed, Development of the Plant, Source of Carbon, Hydrogen and Nitrogen, &c., in Plants, Products of Vegetable growth, Woody Fibre, Gum, Starch, Sugar, Gluten, &c., Cultivation of Plants, Composition and Formation of Soils, Mineral Constituents of Plants, Action of Manures, &c.