

THE ENGLISH LANGUAGE AND LITERATURE.

The Grammatical Structure of the Language.
(Text-Books suggested*: Angus' Handbook of the English Tongue. Adams' Elements of the English Language. Mason's English Grammar.)
One play of Shakespeare, and other special subjects to be selected not less than two years previously by the Senate.†

CHEMISTRY.

General Principles.
Matter, simple and compound. Elements and their classification.
Chemical affinity. Chemical combinations and mechanical mixture. Solution. Laws of Combination by weight and volume.
Equivalent and Atomic Numbers. Atomic Theory.
Chemical Notation and Nomenclature. Use of Formulae and Equations.
Outlines of Crystallography. Isomorphism. Dimorphism.
Chemical action of Light, Heat and Electricity, including Quantitative Relations. Theory of Photographic Process.
The Metalloids. Occurrence in Nature. Modes of Preparation.
Oxygen. (Ozone).
Hydrogen. Water.
Nitrogen. Atmosphere. Diffusion of Gases. Oxide of Nitrogen.
Nitric Acid. Ammonia.
Chlorine. Bromine and Iodine. Compounds with Oxygen and Hydrogen. Theory of Bleaching.
Fluorine and Hydrofluoric Acid.
Sulphur. Sulphurous Acid. Manufacture of Sulphuric Acid.
Other Oxygen compounds of Sulphur. Sulphuretted Hydrogen. Bisulphide of Carbon.
Phosphorus. Compounds with Oxygen and Hydrogen.
Theory of Acids. Monobasic, Dibasic and Tribasic Acids.
Carbon. Carbon Monoxide, and Carbon Dioxide. Principal Hydrogen compounds of Carbon. Manufacture of Coal Gas. Nature of Combustion. Structure of Flame. Oxydizing, reducing, and illuminating effects.
Silicon and Boron. Compounds with Metalloids. Silicic Acid.
Metals. General characters. Occurrence in Nature. Metallurgical Processes. Alloys. Classification.
General properties of Oxides, Hydrates, Sulphides, Chlorides, Carbonates, Sulphates, Nitrates, Silicates.
Potassium. Nitre. Gunpowder. Theory of the action of Gunpowder.
Sodium. Manufacture of Carbonate of Soda.
Barium. Strontium. Calcium. Mortars. Cements. Gypsum.
Magnesium. Aluminium. Clay. Porcelain. Glass.
Iron. Cast Iron. Wrought Iron. Steel.
Manganese. Cobalt. Nickel. Chromium.
Zinc. Cadmium. Lead. Manufacture of White Lead.

* See Regulations on page 37.

† The English Subjects for 1880, 1881, and 1882 are:—

For 1880:—*Shakespeare*, *Macbeth*.

Bacon, *Essays*, I.-XXVIII.

For 1881:—*Shakespeare*, *Hamlet*.

Macaulay, *Essay on Sir Wm. Temple*.

For 1882:—*Shakespeare*, *King Lear*.

Macaulay, *Essay on Milton*.