

JUNIOR MATRICULATION.

GENERAL COURSE.

PART I.**English Grammar.**

The main facts in the development of the language. Etymology and Syntax, including the logical structure of the sentence and the inflection, classification and elementary analysis of words.

One examination paper.

Arithmetic.

ARITHMETIC: Elementary Rules, Fractions (Vulgar and Decimal), Interest, Discount, and easy problems in Stocks.

One examination paper.

History of Great Britain and Canada.

Great Britain and Canada from 1763 to 1885, with the outlines of the preceding periods of British History.

The Geography relating to the History prescribed.

One examination paper.

Elementary Experimental Science (Physics).

Use of metre rule; use of calipers and vernier for more accurate metric measurements (*e.g.*, diameters of wires, thickness of glass, plates, etc.); numerical calculations in the metric system.

Use of balance.

Specific gravity, by specific gravity bottle and hydrostatic balance, of liquids and of solids.

Boyle's law; barometer; diffusion of gases.

Use of Fahrenheit and Centigrade thermometers; determination of zero and boiling point; boiling point dependent on pressure.

Expansion of solids, liquids and gases; examples.

Specific heat; latent heat; easy numerical examples.

Transmutation of matter; indestructibility of matter.

Solution, precipitation, crystallization and evaporation.

One examination paper.