

Calculating the content of any piece of land.
Latitudes and Departures,— their use.
Subdividing and laying out town lots.
Levelling, measuring rods.
Field book.
Platting the survey,—making the plans and maps.
Drawing and drawing instruments.
Magnetic and astronomical bearings. — Magnetic declination,
variation of the magnetic needle and changes in the variation.
Measures of length. English, French and Metric.
Tachymetry—Stadia-rods.

Text-Books :—Gillespie's Land Surveying and Higher Surveying.
—Johnson's. Theory and Practice of Surveying.

Surveying instruments

Construction, adjustment and use of the principal surveying
instruments:— Surveyor's Compass, —Theodolite, Dumpy and Y
levels,—Aneroid barometer,—Sextant,—Tacheometer.

Text-Books :—Gillespie, Johnson.

Laws, Procès-Verbaux, Boundaries

Laws respecting the survey of land, Revised statutes of the pro-
vince of Quebec.—Cadastration.—Division of township, seigniories.
—Settling of boundaries and how to operate.—Examination of
deeds of ownership.—Expert surveys.— " Procès-verbaux ".—Pres-
cription.

Text-Books :—Laws respecting Land Surveyors.—Civil Code.—
Revised Statutes, P. Q., 1909, and amendements.

Inorganic Chemistry

Chemical changes.—Physical changes.
The Air.
Oxygen
Combining Weights.
Nitrogen.
Water.
Hydrogen.
Compounds of Nitrogen with Hydrogen and Oxygen.
Chlorine and its Compounds with Hydrogen and Oxygen.
Acids.—Bases.—Neutralisation.—Salts.
Carbon.
Compounds of Carbon with Hydrogen, Oxygen and with Nitrogen.
Atomic Theory.— Atomic Weights.— Molecular Weights.— Va-
lence.
Classification of the Elements.
The Chlorine family : Chlorine, Bromine, Iodine.—Fluorine.