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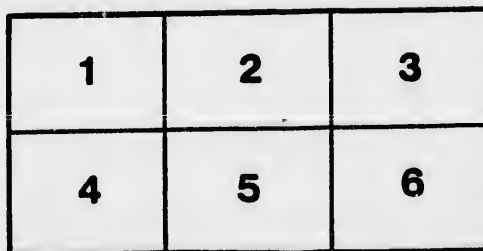
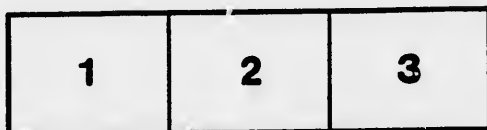
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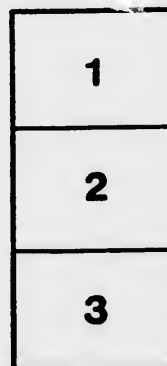
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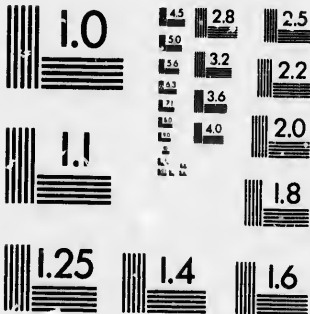
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SYNOPSIS, TIME TABLE,
AND
Course of Instruction
IN
BRANTFORD PUBLIC SCHOOLS.

FIRST SCHOOL ERECTED, 1824.

BRANTFORD:
PRINTED BY OLIVER & HUMPHRIES,
"BRANTFORD HERALD" OFFICE.
1857.

See
Provincial Secretary's Office, E.W.
No. 1862 of 1857.

SYNOPSIS, TIME TABLE,

AND

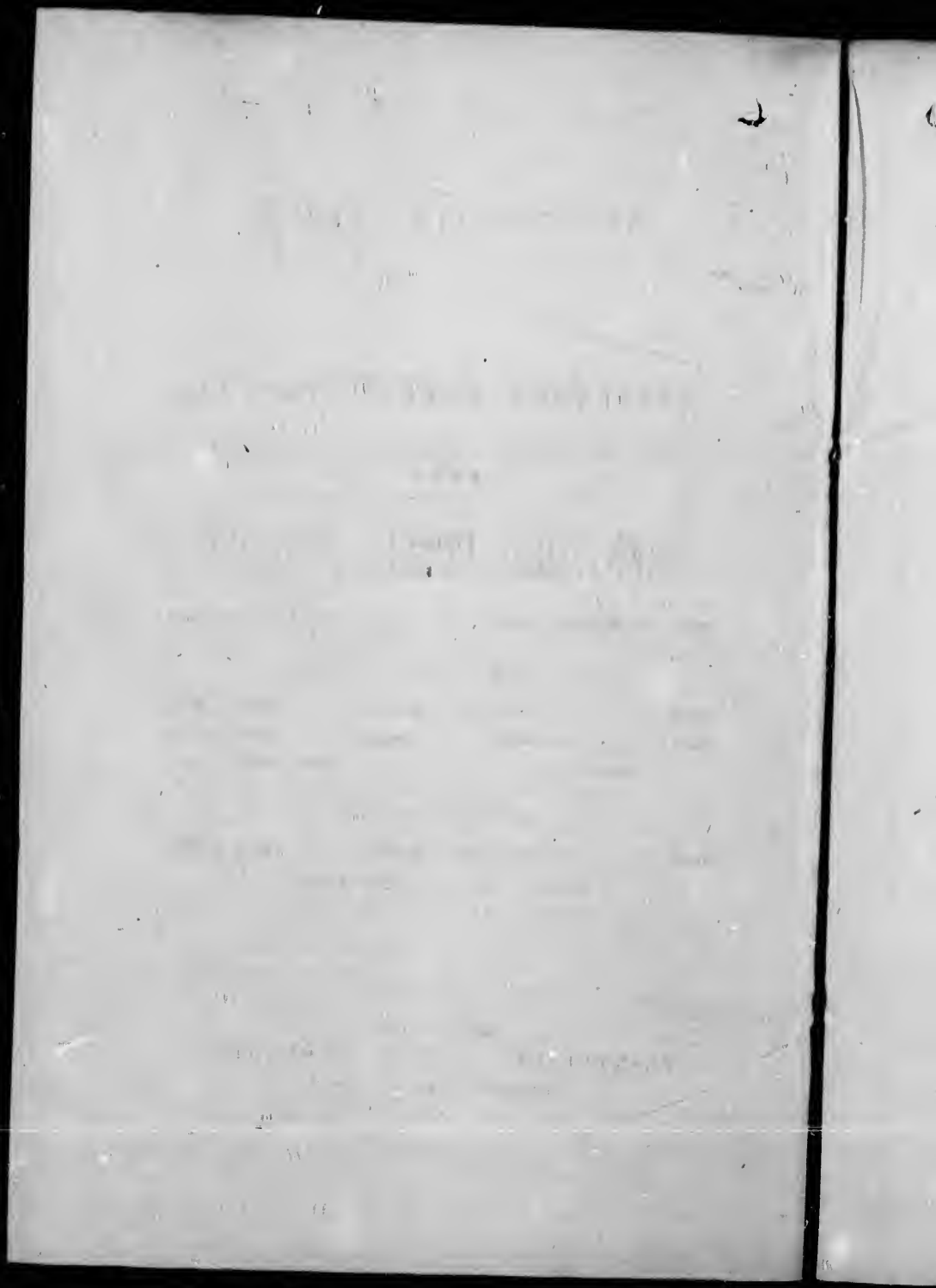
Course of Instruction

IN

BRANTFORD PUBLIC SCHOOLS.

FIRST SCHOOL ERECTED 1824

BRANTFORD:
PRINTED BY OLIVER & HUMPHRIES,
"BRANTFORD HERALD" OFFICE.
1857.



BRANFORD PUBLIC SCHOOLS.

1857.

Principal.

REV. P. D. MUIR, A.B.

Master of Grammar School - - - - - Mr. D. McLEAN, A.B.

CENTRAL SCHOOL.

Senior - - - -	MR. CARLYLE.	Junior - - - -	MISS COADY.
Middle - - - -	MISS SMITH.	Kindergarten - - - -	MISS FOSTER.
Infant - - - -			MISS POOLE.

WARD SCHOOLS.

East - - - -	MR. GOVINLOCK.	King's - - - -	Mr. R. McLEAN.
North - - - -			MISS McMATH.

NOTICE TO PARENTS AND GUARDIANS.

The subjoined Synopsis is placed in your hands in the hope that you will give it a careful perusal in the first instance, and afterwards retain and preserve it for further reference. It contains a statement, so far, of the aims and course of procedure of those to whom you have committed the care and culture of your children's minds. And it is hoped that such a statement will be found useful in various ways.

1.—It will enable you to understand on what topics your children may be expected to receive instruction, and when desired branches will come in course.

2.—It will enable you, at any moment, to determine the precise position of the Class to which your child belongs. A reference to the Synopsis, and from that to the Text Book, if such is mentioned, or to the Detailed Course, with the help of a question or two to the pupil, will determine this at once.

3.—By this means you can keep track of your children's work, in some measure test, and even materially aid their progress.

4.—You will see at a glance the reasonableness of the position your child occupies in the School.

5.—By a reference to the Time Table, you will see that every half-hour of the day has its own appropriate work; and that on the one hand the teachers cannot, without injustice to the others, give special individual attention to those who fall behind their Class; and on the other, it is only to a very limited extent that a pupil who has lost time can make up his work and overtake his Class.

6.—You will see, therefore, the necessity of regular and steady attendance, to prevent a falling back in grade, and secure that the pupil move forward with his Class to a higher.

7.—You will see, moreover, what few parents are sufficiently aware of—that irregular attendance is in one sense worse than no attendance. It stupifies and disheartens the pupil, and deprives him of the possibility of thoroughly understanding his work. Absence from part of a course is not merely so much time lost; it is also so much foundation not laid; and, consequently, so much superstructure which cannot afterwards be built, until, by falling back in grade, and going over the same ground, the omitted foundation is supplied.

8.—It is hoped that, by exhibiting thus in detail the amount and quality of education within their children's reach, some parents may be stimulated to greater exertion to keep their children at school constantly enough and long enough to take advantage of it.

And lastly,—it is hoped that such an exhibition of our aims will increase the interest, in our Educational Institutions, of all who desire to see a well-informed, intelligent, and reflecting community rise up around us.

Central School, June, 1857.

PETER D. MUIR, A.B., PRINCIPAL.

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SYNOPSIS OF THE COURSE

CENTRAL SCHOOL—JUNIOR.

ENGLISH.

READING : Third Book, Analytical Examination.
GRAMMAR : Analysis and Etymology (as contained in detailed course) ;
Orthography from dictation.

GEOGRAPHY.

COMPARATIVE : Geography of the Coast Line, (as contained in detailed course.)
HISTORICAL : Primitive, Egyptian, and Persian Periods, (as contained in Sullivan's Epitome.)
SPECIAL : Canaan, before and after the settlement.

HISTORY.

GENERAL : Egypt, Assyria, Persia, (Outlines.)
SCRIPTURE : Old Testament, (as contained in Magnall's Hist. Questions.)

GENERAL INFORMATION.

CIRCLE OF KNOWLEDGE : (Tablet Lessons,) Subjects contained in detailed course.
PHYSIOLOGY : Hooker's First Book.
OBJECT LESSONS : Zoology, Varty's Illustrations, &c.

ARITHMETIC.

THEORETICAL : Whole Numbers, (as contained in detailed course.)
PRACTICAL : Abstract and applied ; (larger Arithmetic.)
MENTAL : ENOS. First Part ; Tables.

WRITING : Elementary Exercises.
DRAWING : Rectilinear Outlines, Slates.
MUSIC : Notation of time ; Tonic sol-fa, committed.

CENTRAL SCHOOL—MI

ENGLISH.

READING : Fourth Book, Analytical Examination
Affixes.
GRAMMAR : Analysis and Etymology, (as contained in detailed course.)
Orthography, from dictation.

GEOGRAPHY.

COMPARATIVE : Geography of the Land Surface, (as contained in detailed course.)
HISTORICAL : Grecian and Roman Periods, (Sullivan's Epitome.)
SPECIAL : Palestine and Asia Minor, in the time of

HISTORY.

GENERAL : Greece, Macedonia, Rome, (Outlines.)
SCRIPTURE : Connection of the Old and New Testaments.

GENERAL INFORMATION.

CIRCLE OF KNOWLEDGE : (Tablet Lessons,) Subjects contained in detailed course.
PHYSIOLOGY : (Cutler.)
OBJECT LESSONS : Natural Phenomena, &c.

ARITHMETIC AND ALGEBRA.

THEORETICAL : Vulgar Fractions, First Course of Algebra.
PRACTICAL : Vulgar and Decimal Fractions, and their Applications.
MENTAL : ENOS, Second Part.

WRITING : Elementary Exercises—Foster's Patent Pen.
DRAWING : Curvilinear Outlines ; Slates and Paper ;
MUSIC : Tonic sol-fa read ; practice on the tonic, dominant, and chords (major) ; writing score on slates.

TIME TABLE OF THE CENTRAL SCHOOL.

TIME.	CLASS.	MONDAY.	TUESDAY.	WEDNESDAY.
From 9 a.m. to 10.30 a.m.	Junior - - - - - Middle - - - - - Senior - - - - -	Arithmetic, Practice, Mental, Theory. Arithmetic, Practice, Mental, Theory. Algebra, Mensuration.	Arithmetic, Practice, Mental, Theory. Algebra, Practice, Theory. Arithmetic, Geometry.	Arithmetic, Practice, Mental, Theory. Arithmetic, Practice, Theory. Algebra, Geometry.
From 10.40 a.m. to 12 noon.	Junior - - - - - Middle - - - - - Senior - - - - -	Circle of Knowledge, Writing. Circle of Knowledge, Writing. Book-keeping.	Object Lessons, Writing. Object Lessons, Writing. Physical Science, Writing.	Circle of Knowledge, Writing. Circle of Knowledge, Writing. Music, Drawing.
From 1.30 p.m. to 3 p.m.	Junior - - - - - Middle - - - - - Senior - - - - -	Third Book, Grammar. Fourth Book, Grammar. Fifth Book, Grammar.	Physiology, Dictation. Physiology, Dictation. Physiology, Composition.	Third Book, Grammar. Fourth Book, Grammar. Fifth Book, Grammar.
From 3.10 p.m. to 4 p.m.	Junior - - - - - Middle - - - - - Senior - - - - -	Music, Drawing. Scripture History and Geography. History and Geography.	Scripture History and Geography. General History and Geography. Chronology.	General History and Geography. General History and Geography. History and Geography.

ELEMENTARY AND WARD SCHOOLS.

INFANT DEPARTMENT.

First and Second Reading Book.
TABLET READING LESSONS : "Circle of Knowledge," Preparatory Course.
PICTURE READING LESSONS : Bible Stories.
OBJECT LESSONS : Domestic and Wild Animals, &c.
ARITHMETIC : Numeration and Notation to Four Figures.
MENTAL : Addition and Subtraction. (Schell.)
WRITING, on Slates ; Figures and Small Letters.
DRAWING, on Slates ; Simple Forms in Straight Lines.
MUSIC : Simple Melodies to words.

JUVENILE DEPARTMENT.

Second and Third Reading Book.
TABLET READING LESSONS : "Circle of Knowledge," Preparatory Course, Part II.
LIFE OF OUR SAVIOUR.
PICTURE READING LESSONS : Manners and Customs of the Jews.
ANCIENT CITIES.
OBJECT LESSONS : Domestic and Wild Animals, Geometrical Figures, &c.
GEOGRAPHY : Elementary Tablet Lessons.
HISTORY : Stories from Parley's General History.
ARITHMETIC : Numeration and Notation to Six Figures.
MENTAL : Schell throughout ; Tables of Money, Weight, &c.
PRACTICAL : Simple Questions on the Slate.
WRITING, on Slates, Figures, Small Letters, and Capitals.
ORTHOGRAPHY : Copying Reading Lesson on Slates—from sight—from dictation.
DRAWING : Simple Forms in Straight Lines and Curves.
MUSIC : Simple Melodies to Words, and Tonic sol-fa committed to memory.

GRAMMAR.

ENGLISH.

History of English Language and Literature (Chambers).
ELEMENTS OF CRITICISM. ELEMENTS OF LOGIC. (Ward).

GEOGRAPHY AND HISTORY.

GEOGRAPHY : Grecia Antiqua ; Italia Antiqua ; the Roman Empire ; Augustus ; Historico-Geographical Exercises, (Sullivan's Epitome.)
CHRONOLOGY : Ancient.
BIOGRAPHY, MYTHOLOGY, ANTIQUITIES.

NATURAL SCIENCES.

Vegetable and Animal Physiology, (Chambers' Ed. Ser.)
Chemistry, (Youman's Text Book and Chart.)
Geology, (De la Beche.)
Nat. Philosophy, Johnston's Diagrams, with Practical Questions.
Math. Astronomy, (Bruckleshy.)

MATHEMATICS.

Algebra (Colenso), Quadratics, &c.
Geometry, Euclid, Book III—VI, with Exercises.
Plane Trigonometry.
DRAWING : Perspective and Shading.

THE COURSE OF INSTRUCTION.

CENTRAL SCHOOL—MIDDLE.

ENGLISH.

READING: Fourth Book, Analytical Examination; Roots, Prefixes, and Suffixes.
GRAMMAR: Analysis and Etymology, (as contained in detailed course); Orthography, from dictation.

GEOGRAPHY.

COMPARATIVE: Geography of the Land Surface, (as contained in detailed course).
HISTORICAL: Grecian and Roman Periods, (Sullivan's Epitome).
SPECIAL: Palestine and Asia Minor, in the time of the Apostles.

HISTORY.

GENERAL: Greece, Macedonia, Rome, (Outlines).
SPECIAL: Connection of the Old and New Testament, the Gospels, the Acts.

GENERAL INFORMATION.

OF KNOWLEDGE: (Tablet Lessons.) Subjects in detailed course.
OF CIVILIZATION: (Cuttes.)
LESSONS: Natural Phenomena, &c.

ARITHMETIC AND ALGEBRA.

ARITHMETIC: Vulgar Fractions, First Course of Algebra, (detailed course).
ALGEBRA: Vulgar and Decimal Fractions, and their applications, (L. Arith.).
SPECIAL: Euclid, Second Part.

WRITING: Elementary Exercises—Foster's Patent Pencilled Copies.
DRAWING: Curvilinear Outlines; Slates and Paper; Objects.
TUNING: sol-fa read; practice on the tonic, dominant and sub-dominant.
SINGING: (major); writing score on slates.

CENTRAL SCHOOL—SENIOR.

ENGLISH.

READING: Fifth Book, Analytical Examination, Memoriter Statement of Contents, Derivatives.
GRAMMAR: Analysis and Synthesis (as contained in detailed course); Orthography and Extempore Composition, on the Slate.

GEOGRAPHY.

COMPARATIVE: Geography of the Ocean and the Atmosphere, (detailed course).
HISTORICAL: Middle-age and modern periods, (Sullivan's Epitome).
SPECIAL: Canada and the United States.

HISTORY AND CHRONOLOGY.

HISTORY: Britain and France; Discovery and Colonization of America; History of Canada.
CHRONOLOGY: Middle-age and modern times.

PHYSICAL SCIENCE.

DESCRIPTIVE ASTRONOMY: (Mattiison's Diagrams).
ELEMENTS OF ZOOLOGY: (Patterson's Diagrams).
NATURAL PHILOSOPHY: Experimental Illustrations of Fifth Book Lessons.
CHEMISTRY: Foster's Elements, with Experiments.
PHYSIOLOGY: (Hooker.)

ARITHMETIC, ALGEBRA, & GEOMETRY.

ALGEBRA: As contained in detailed course, (Davies' Elementary).
RATIO AND PROPORTION, (detailed course); Applications, (L. Arith.).
GEOMETRY: Euclid, Books I. & II., with Exercises; Mensuration.

WRITING: Foster's Patent Pencilled Copies.
DRAWING: The Human Figure, (Outline).
MUSIC: The tonic, dominant, and sub-dominant chords, (minor); scales, keys, and signatures; transposition; part singing.

TABLE OF THE CENTRAL SCHOOL.

TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.
Arithmetic, Practice, Mental, Theory. Algebra, Practice, Theory. Arithmetic, Geometry.	Arithmetic, Practice, Mental, Theory. Arithmetic, Practice, Mental, Theory. Algebra, Geometry.	Arithmetic, Practice, Mental, Theory. Algebra, Practice, Theory. Arithmetic, Geometry.	Arithmetic, Practice, Mental, Theory. Arithmetic, Practice, Mental, Theory. Algebra, Geometry.
Lessons, Writing. Lessons, Writing. Circle of Science, Writing.	Circle of Knowledge, Writing. Circle of Knowledge, Writing. Music, Drawing.	Object Lessons, Writing. Object Lessons, Writing. Physical Science, Writing.	Circle of Knowledge, Writing. Circle of Knowledge, Writing. Music, Drawing.
Logic, Dictation. Logic, Dictation. Logic, Composition.	Third Book, Grammar. Fourth Book, Grammar. Fifth Book, Grammar.	Physiology, Dictation. Physiology, Dictation. Physiology, Composition.	Third Book, Grammar. Fourth Book, Grammar. Fifth Book, Grammar.
General History and Geography. General History and Geography. General History and Geography.	General History and Geography. Music, Drawing. History and Geography.	Scripture History and Geography. General History and Geography. Chronology.	Comparative Geography. Comparative Geography. Comparative Geography.

GRAMMAR SCHOOL.

ENGLISH.

English Language and Literature (Chambers' Ed. Series).
OF CRITICISM. ELEMENTS OF LOGIC. (Whately.)

GEOGRAPHY AND HISTORY.

Y: Grecia Antiqua; Italia Antiqua; the Roman Empire, under Augustus; Historico-Geographical Exercises, (Sullivan).
Y: Ancient.
Y: MYTHOLOGY, ANTIQUITIES.

NATURAL SCIENCES.

and Animal Physiology, (Chambers' Ed. Ser.)
(Youman's Text Book and Chart).
de la Beebe.)
phy, Johnston's Diagrams, with Practical Questions.
onomy, (Brackley.)

MATHEMATICS.

denso), Quadratics, &c.
Euclid, Book III—VI., with Exercises.
gonometry.
Perspective and Shading.

LATIN.

FIRST YEAR: [may be taken with the studies of the Central School—Middle.]
Arnold's First and Second Books, Cornelius Nepos.
SECOND YEAR: [may be taken with studies of Central School—Senior.]
Arnold's Prose Composition, Arnold's Versification. Caesar, Ovid.
THIRD YEAR: Arnold's Prose Composition, P. II., Arnold's Versification.
Sallust, Virgil.
FOURTH YEAR: Arnold's Versification. Horace, Cicero.
SUPPLEMENTARY YEAR: Livy, Tacitus, Plautus.
General Study: History of Latin Language and Literature.

GREEK.

FIRST YEAR: [may be taken with the studies of the Central School—Senior.]
Arnold's First Greek Book, and Greek Reader.
SECOND YEAR: Arnold's Greek Prose Composition. Anabasis, Iliad.
THIRD YEAR: Arnold's Greek Prosody. Odyssey, Lucian, Plato.
SUPPLEMENTARY YEAR: Thucydides, Herodotus, Sophocles.
General Studies: Greek New Testament.
History of Greek Language and Literature.

FRENCH.

FIRST YEAR: [may be taken with studies of Central School—Middle.]
Greene's Introduction to Ollendorff. Fables Choises.
SECOND YEAR: [may be taken with Studies of Central School—Senior.]
Valne's Ollendorff. Fenelon, Moliere.
General Study: History of French Language, and Literature (Chambers' Ed. Series).

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COURSE OF INSTRUCTION,

In English, &c.

ENGLISH — JUNIOR.

READING.

Third Book, analytical cross examination.

GRAMMAR.

Analysis of simple indicative sentences. Subject, predicate, nominative, verb; adjunct words, the adjective, the adverb; adjunct phrases, the preposition, the relative; compound subject, predicate, and adjuncts, the conjunction.

Classification of words, parts of speech. Name words, asserting words, descriptive words, qualifying words, connectives. Varieties of the *name word*; proper nouns, common nouns, abstract nouns, pronouns, adjective pronouns, infinitives, participial substantives. Varieties of the *descriptive word*; articles, numerals, ordinals, demonstratives, participles, adjectives of quality, possessives, noun apposite, noun adjective. Varieties of the *verb*; descriptive verbs, copulæ. Varieties of the *connective*; prepositions, relatives, conjunctions.

Grammatical Terms: Subject and attribute, adjunct and principal. Number, gender, case, person, comparison, tense, mood, voice.

DETAILED COURSE OF INSTRUCTION

ENGLISH — MIDDLE.

READING.

Fourth Book, analytical cross examination, derivatives, prefixes, and affixes.

GRAMMAR.

Analysis. Indicative, interrogative, imperative, and exclamatory sentences; prepositional and relative adjuncts; relative pronouns, relative adverbs; varieties of "that" and "as."

Etymology—Inflections. Number, in nouns, in pronouns, in adjectives, in verbs. Gender in nouns, in pronouns. Case, in nouns, in pronouns, the reflex pronoun, paradigm of the pronoun. Comparison of adjectives, of adverbs, adjuncts of the comparative, of the superlative. Verbs and participles; paradigm of the simple tenses; regular and irregular verbs; verbs, to be, to have; future verbs.

Etymology—Derivatives from English Roots. Union of the noun adjective and its principal. Affixes—hood, ship, dom, er, y, ard, ness. Prefixes—mis, over, under, fore, after, hind, in, out, mid, up, down, off. Compounds of who, which, and what. Adjectives from nouns: affixes—full, some, y; less, ed, ly; ish, like; en, ward. Adjectives from adjectives: prefixes—un, mis, over, al, all; affix, ish. Adjectives from verbs: affixes—able, ible. Verbs from nouns: prefixes—en, em, im, un, be; affix, en; lengthening the vowel. Verbs from adjectives: prefixes—em, en, be, affix en. Verbs from verbs: prefixes—be, a; down, for, fore, gain, with, etc. Miscellaneous observations on compounds and derivatives.

ENGLISH — SENIOR.

READING.

Fifth Book, memoriter statement of contents, derivation, Latin and Greek roots.

GRAMMAR.

Analysis. Sentences simple, compound, and complex. Members, co-ordinate and subordinate; subjunctive, relative, and absolute. Varieties—of the subject, number of the subject, directions and

cautions; of the predicate; propositions with the form of one kind and force of another; ellipsis. Adjuncts of the noun, of the adjective, of the adverb, of the verb.

Synthesis. The noun and its adjuncts; articles and their allies, descriptive adjectives and participles, singular and plural adjectives, the noun adjective, the noun apposite, the possessive, adverbs, order. The verb and its adjuncts; descriptives after the verb, nominative in the predicate; objective after the verb, direct, indirect, double; the infinitive after the verb, four cases, use and omission of the sign. Copulae and their adjuncts: compound tenses, paradigm of the verb, use of the passive forms, neuter verbs; use of the definite forms, of the indefinite, of the perfect and imperfect forms; futures, simple, use of shall and will, contingent, potential, and necessary; present and past determinate; perfect permanent; emphatic, and interrogative forms. Use of the indicative mood, of the subjunctive; indicative mood in subjunctive statements, subjunctive mood in indicative statements. Tenses in the subjunctive mood. Prepositions: appropriate and inappropriate, position of the preposition. Pronouns: reference of the personal pronoun, of the adjective pronoun, of the relative. Interrogative pronouns. Relative and interrogative adverbs. Conjunctions: connecting separate and independent sentences, members of a compound or complex sentence, words and phrases. Punctuation: general view and additional observations.

COMPARATIVE GEOGRAPHY—JUNIOR.

GEOGRAPHY OF THE COAST LINE.

Distribution of Land and Water. Continents and oceans; seas and countries; the ocean hemisphere; the land hemisphere; northern and southern, eastern and western hemispheres.

The Old and the New World. Contrast of direction; extent in length and breadth.

Promontories, Peninsulas, Seas, and Gulfs. Comparisons and contrasts; Africa, Asia, Europe; South America, North America; Australia; comparative extent of coast line and surface of the great divisions.

Resemblances in Configuration. Lands widening and approaching to the north, narrowing and separating to the south; great promontories turned to the south, exceptions; southern points of the great continents high and rocky, with a large island or group of islands to the east; bend inward of the western or south-western side; parallelism of the two sides of the Atlantic.

The Three Double-Worlds. Comparisons and contrasts; resemblances, connections, separations.

Islands. Chains, groups, solitary islands, islands connected with the continents.

Seas and Gulfs. Comparative form and extent; closed and open.

COMPARATIVE GEOGRAPHY — MIDDLE.

GEOGRAPHY OF THE LAND SURFACE.

General Slopes of Asia, Africa, Europe; of America; line of highest elevation; long and short slopes; nature of the slopes toward the Pacific; toward the Arctic and Atlantic.

Particular Slopes determined by the flow of the rivers; drainage of Europe, Asia, Africa, North America, South America; central basins, lakes, and inland seas.

Comparison of Elevations, plains, plateaus, mountains, and mountain chains.

Phenomena of the Plains and Plateaus. Prairies or savannahs, llanos, pampas, silvas or forests, steppes, deserts, heaths, landes, swamps, marshes, morasses, fens.

Phenomena of the Mountains, chains, peaks, precipices, volcanoes, the snow line; description and comparative heights of the principal mountain peaks.

Phenomena of the Rivers. Sources, currents, waterfalls, estuaries; description, course, and comparative length of the principal rivers; navigable rivers; rivers that dry up; rivers that disappear; inhabitants of the rivers.

Phenomena of the Lakes and inland seas; fresh and salt water; elevation and depth; description, situation, and comparative size of the principal lakes and inland seas; celebrated lakes.

COMPARATIVE GEOGRAPHY—SENIOR.

THE OCEAN AND THE ATMOSPHERE.

The Ocean. Tides, their causes and course; tidal chart; comparative height; tideless seas. Currents, constant and variable, under currents. Depths, shallow seas, lagoons, sand-banks, reefs, coral reefs and islands, frozen seas, icebergs. Inhabitants of the ocean.

The Atmosphere. Winds, causes, velocities, constant and variable hurricanes, whirlwinds, peculiar winds, map of the winds. Rain, cause, circumstances which affect the quantity, proportion of rain and rainy days in various countries; rainless districts; rain map. Climate, as affected by latitude, by elevations, by local circumstances; isothermal lines or climate map.

Distribution of Plants and Animals. Characteristics of tropical, temperate, and polar vegetation. Vegetation as affected by altitude, by proximity to the seas. Characteristics of tropical, temperate, and polar animals. Animals according to altitude, animal centres, Flora and Fauna.

Man, appearance, habits, and condition of the various races. Geographical distribution; general division for the world; specific sub-division for Europe. Religions: Nature, comparative numbers, and geographical distribution. Education: Comparative view; celebrated educational institutions. Political governments and national connection.

CIRCLE OF KNOWLEDGE, TABLET READING LESSONS.

JUNIOR—PART I.

Section I.		Introductory.
Section II. Lesson 4.		The body and its parts.
Section III. Lesson 16.		Of Food.
Section IV. Lesson 28.		Of Clothing.
Section V. Lesson 33.		Of Dwellings.
Section VI. Lesson 39.		Of School and Play.
Section VII. Lesson 43.		Mammalia.
Section VIII. Lesson 51.		Birds.
Section IX. Lesson 70.		Reptiles and Fishes.
Section X. Lesson 74.		Insects and Worms.
Section XI. Lesson 79.		Of Plants.

MIDDLE—PART II.

Section XII.	Lesson 91.....	The Earth.
Section XIII.	Lesson 101.....	Animal, Vegetable, and Mineral Substances.
Section XIV.	Lesson 110.	The Air—the Heavens.
Section XV.	Lesson 117.....	Divisions of Time.
Section XVI.	Lesson 121.....	Climates.
Section XVII.	Lesson 133.....	Social Life.
Section XVIII.	Lesson 144.....	Of Government.
Section XIX.	Lesson 152.	Of Other Nations.
Section XX.	Lesson 158.....	Trade and Commerce.
Section XXI.	Lesson 166.....	Matter and Motion.
Section XXII.	Lesson 175.....	Mechanical Powers.
Section XXIII.	Lesson 183.....	The Senses.
Section XXIV.	Lesson 192.....	The Attributes of God.

ARITHMETIC — JUNIOR.

Text Books for private study—Large Arithmetic, (Ir. Nat. Series.)

Enos, mental arithmetic, and analysis.

Numeration and Notation, with Decimals. Analysis and comparison of the parts of a whole number; of the parts of a decimal; of the parts of a whole number and a decimal.

Addition and Subtraction. Meaning and uses. The sum, the difference; the minuend, the subtrahend; carrying, borrowing; why we begin at the right, how to begin at the left. Signs of addition and subtraction; effect of the vinculum. Analysis, mental addition and subtraction. Practical examples.

Multiplication and Division. Meaning and uses of multiplication, summing similar quantities, change, reduction descending, square and cubic measure. The multiplier, the multiplicand, the product. Factors, $3 \times 4 = 4 \times 3$, &c. Multiplication by 10, 100, 1000, &c. Why we begin at the right, how to begin at the left. Composite numbers, analysis, mental multiplication, &c.—Meaning and uses of Division, continued subtraction, equal partition, reduction ascending. Signs. Dividend, divisor, quotient. Remainder; how to divide the remainder, vulgar fractions; how to make it a decimal; repeaters, circulators, interminate. How to multiply a fraction,

$\frac{2}{2} = 1, \frac{3}{3} = 1, \frac{4}{4} = 1$, &c. How to divide by a fraction, by a mixed number. Analysis in multiplication and division. Cancellation. Abbreviations. Mental division. Tables of money, weights, and measures. Applications. Compound rules. Practice, accounts, etc. Mental Arithmetic and Analysis.

ARITHMETIC — MIDDLE.

Text Books for private study—Large Arithmetic, (Ir. Nat. Series,) Enos, mental arithmetic and analysis, P. II.

Fractions: Their meaning and use. The numerator, the denominator. Proper and improper fractions; mixed numbers. To find the value of a fraction—in a lower denomination—in decimals. To express a lower value as the fraction of a higher, a decimal as a vulgar fraction, repeaters and circulators, reasons. Comparative value of fractions. The greater the numerator, the greater the fraction; the greater the denominator, the less the fraction. Equivalent fractions; to bring a fraction to its lowest denomination, greatest common measure; to bring fractions to the same denominator, multiple and sub-multiple, least common multiple. Addition and subtraction of fractions. Mental exercises. Multiplication and division of fractions; principles—(1,) multiplying the denominator is equivalent to dividing the numerator; (2,) multiplying the numerator is equivalent to dividing the denominator, (Pestalozzian illustrations); (3,) though the value is the same, the denomination is altered. Multiplication by a fraction; principles, (1,) $\frac{3}{4}$ of $1 = \frac{1}{4}$ of 3, etc.; (2,) multiplication by a proper fraction diminishes the quantity; (2,) the greater the denominator the less the product. Division by a fraction; meaning; principles—(1,) $9 \div \frac{3}{4} = 9 \times \frac{4}{3}$; (2,) dividing by a proper fraction increases the quantity; (3,) the greater the denominator, the greater the quotient. Multiplication and division of a fraction by a fraction; compound fractions, (Pestalozzian exercises.) Applications. Mental exercises.

ALGEBRA—MIDDLE AND SENIOR.

Text Book for private study in the Senior division, Davies' Elementary.

Introduction, Davies' Elementary.

Algebraic Notation, known and unknown quantities, positive and negative quantities, signs of addition, subtraction, multiplication, and division.

Monomials, co-efficients, summing of monomials, numeral co-efficients; squares and other powers, roots, fractional indices, multiplication of powers and roots; logarithms, multiplication of $+a$ by $+b$, of $-a$ by $+b$, of $+a$ by $-b$, of $-a$ by $-b$.

Binomials and Polynomials; how to express the addition and subtraction of polynomials, $(a+b)-(c+d)$, $(a+b)-(c-d)$; What is the sign of c ; how to sum polynomials. How to express the multiplication of polynomials, how to multiply polynomials.

How to express the square or other power of a polynomial, the root. Expansion of $(a+x)^2$; extraction of the square root. Expansion of $(a+x)^3$; extraction of the cube root. How to express the division of polynomials, how to divide polynomials.

Algebraic fractions, (similar to arithmetical.) Analysis and transformation of algebraic expressions. Common and useful formulæ. Simple equations (equations of the first degree); how the degree of an equation is determined. Examples. Axioms, clearing the fractions, transposition, division, object in view. Value of x , verification. Equation with two or more unknown quantities, elimination. Particular problems. General problems.

ARITHMETIC AND ALGEBRA—SENIOR.

Ratio. Arithmetical, geometrical; antecedents, consequents; measure of arithmetical ratio, $a - m = d$; measure of geometrical ratio, $\frac{m}{a} = q$. Ratios of equality, arithmetical $a - m = 0$, geometrical $\frac{m}{a} = 1$. Ratio of lesser inequality, arithmetical $a = m + d$, geometrical $\frac{m}{a} = q < 1$. Ratio of greater inequality, arithmetical $a + d = m$, geometrical $\frac{m}{a} = q > 1$. Comparison of ratios. Equal additions or subtractions destroy the equality of geometrical, but not of arithmetical ratios. Equal multiplications or divisions destroy the equality of arithmetical, but not of geometrical ratios.

Proportion, or equality of geometrical ratios, $\frac{m}{a} = \frac{n}{b} = \frac{o}{c} = \frac{p}{d}$, or $a : m :: n : b$, &c. Proportion by inversion, by alternation, by composition; practical advantage.— a, b, c, d , antecedents; m, n, o, p , consequents; $\frac{m}{a} = \frac{n}{b} = \frac{o}{c} = \frac{p}{d}$, ratio direct, $an = mb$, $bo = nc$, &c. But $am = bn = oc = pd$, ratio inverse and $\frac{n}{a} = \frac{m}{b}$, or $a : n :: b : m$, &c. Method of determining whether a ratio is direct or inverse. Method of stating a direct ratio, of stating an inverse ratio. Relation of direct and inverse ratio, reciprocals; method of stating an inverse ratio without confusing the elements. Solution of questions in proportion, if $a : m :: b : n$ then $an = bm$, $a = \frac{mb}{n}$, $n = \frac{mb}{a}$, $m = \frac{an}{b}$, $b = \frac{an}{m}$. Arithmetical examples in the forms $a : m :: b : x$, $x : m :: b : n$, $a : x :: b : n$, $a : m :: x : n$. Simple proportion. Arithmetical examples in the form $a + b + c + d : m + n + o + p :: a : m :: b : n$ etc. Proportionate distribution or partnership. Arithmetical examples in the form $a \times b \times c : d :: m \times n \times o : p$; compound proportion. How to state the question when the consequents are in direct ratio to all the antecedents, when the consequents are in inverse ratio to all the antecedents, when the consequents are in inverse ratio to some of the antecedents.

Series, arithmetical, method of summation, applications; geometrical summation, interpolation, infinite series.

Practical applications of proportion ; partnership, barter, alligation, per centage, simple interest, discount, equation of payments, commission, purchase of stock, exchange. Practical applications of geometrical series ; compound interest, annuities, deferred annuities, &c.

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