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Budapesti Nemzetközi Iskola - International School of Budapest és
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TEACHING CURRICULUM

FOR MIDDLE SCHOOL

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GRADE 5 A & 5 B

CURRICULUM

Grade 5 English Language Learning

Term 1 Unit 1	Term 1 Unit 2	Term 2 Unit 3	Term 2 Unit 4
Unit 1A: Stories with familiar settings Reading and analysing extracts from classic children's fiction, then planning and writing an episode in the same style.	**Unit 2A: Traditional tales and stories from other cultures** Reading and analysing long established stories, including suspense.	**Unit 3A: Stories by significant children's authors** Reading and analysing stories in which time plays a significant part, including those by significant children's authors.	**Unit 4A: Poems in familiar settings** Reading and discussing classic poetry and part of a Shakespeare play. **Unit 4B: Poems by significant poets** Reading and discussing a range of poetic forms. **Unit 4C: Poems by significant poets and with language play** Reading and discussing a range of poetic forms and themes.
Unit 1B: Instructions Reading and analysing biography, autobiography and journalistic writing, then imitating the styles of writing.	**Unit 2B: Explanations and dictionaries entries** Reading and analysing discursive, formal writing.	**Unit 3B: Non-chronological reports** Reading and analysing reports and explanations in formal and informal writing.	

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Grade 5 Maths

TERM 1 Autumn	TERM 1 Winter	TERM 2 Spring	Term 2 Summer
Unit 1A Natural numbers	Unit 2A Measurement and statistics	Unit 3A Fractions	Unit 4A Cuboids
Unit 1B Geometry	Unit 2B Angles	Unit 3B Rectangles (Area and perimeter)	Unit 4B Decimals
Unit 5A Integers			

Grade 5 Science & Social Studies

Term 1 Unit 1	Term 1 Unit 2	Term 2 Unit 3	Term 2 Unit 4
1A Unit 6.1 Human Organs and Systems	2A Unit 6.4 Conductors and Insulators	3A Unit 6.3 Food Chains	4A Unit 6.8 **Water and Mountain Ecosystems**
1B Unit6.2 Reversible and Irreversible Changes	2B Unit 6.6 Mass and Weight	**3B** **Unit 6.7 Investigating rivers**	**4B** **U**nit 6.5 Caring for the Environment Project based learning

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GRADE 6 A & 6 B

CURRICULUM

Grade 6 English Language Learning

TERM 1 Autumn	TERM 1 Winter	TERM 2 Spring	Term 2 Summer
1A Non-fiction types (Sentence structure & punctuation skills; structural/presentational/ linguistic features and conventions of a range of non-fiction text types – to inform, explain, argue, persuade, comment; note taking; write own non – fiction text type using conventions)	**2A An introduction to journalistic writing** (Issues of bias and viewpoint in journalistic writing/ news websites; oral and written work covering features of journalistic commentary and interviews)	**3A Exploring pre-20th century fiction** (Narrative structure/themes/literary/rhetorical and grammatical features; social, cultural and historical contexts; written response to a text extract, focusing on essential reading skills)	**3B Exploring pre-20th century drama** (Dramatic structure/themes/literary, rhetorical and grammatical features; social, cultural and historical contexts; basic performance/conventions of gesture, movement, delivery, pace; writing – short drama script/extract)
1B Contemporary non–fiction: expressing the self (Straightforward thematic/structural/ linguistic features of biography, autobiography, letters and diaries; written and oral work)	**2B Horror and suspense** (Sentence structure & punctuation skills; structural/ narrative/genre/ literary and grammatical features of	**3B Exploring pre-20th century fiction** (Narrative structure/themes/literary/rhetorical and grammatical features; social, cultural and historical contexts; written response to a text extract, focusing on essential reading skills)	**3C Exploring pre-20th century poetry** (Themes/poetic and linguistic devices; social, cultural and historical contexts; comparison of contemporary and pre - 20th century poems;

	horror and suspense texts; learners to write horror/suspense extract, using conventions and features		written comparative response done in groups)

Ongoing Themes throughout the year:

Getting to grips with genre

(Genre features of science fiction, fantasy, contemporary folk and fairy tales; narrative features of short stories; personal reading preferences/habits; book reviews; individual presentations)

Poetry – narrative and non-narrative

(Straightforward structural/ thematic/stylistic/ literary features of narrative poems; drama and role play; character diary entries; structural/literary features of non-narrative poems; written responses to poems)

Grade 6 Maths

TERM 1 Autumn	TERM 1 Winter	TERM 2 Spring	Term 2 Summer
1A Number and Calculation	2A Number and Calculation	3A Number and Calculation	Projects, Revision
1B Algebra and Measures	2B Algebra and Measures	3B Measures	
1C Handling Data and Geometry	2C Handling Data and Geometry	3C Handling Data and Geometry	

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Grade 6 Science

TERM 1 Autumn	TERM 1 Winter	TERM 2 Spring	Term 2 Summer
1A Unit 7.1 Living Things	2A Unit 7.7 Habitats and Environment	3A Unit 7.9 Forces and their Effects	4A Unit 7.3 Energy Transformations
1B Unit 7.4 Microorganisms and Disease 1C Unit 7.6 Putting Things into Groups	2B Unit 7.5 The Earth and Beyond	3B Unit 7.2 Solids, Liquids and Gases	4B Unit 7.8 Acids and Bases

Grade 6 Social Studies

TERM 1 Autumn	TERM 1 Winter	TERM 2 Spring	Term 2 Summer
European Geography	Introduction to the Middle Ages Kings and Queens	Christianity in Europe	The Rise of Islam

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GRADE 7A and 7B

CURRICULUM

Grade 7 ELL

TERM 1 Autumn	TERM 1 Winter	TERM 2 Spring	Term 2 Summer
Unit 1: Writing skills workshop: Vocabulary; spelling strategies; punctuation range; sentence construction; fronted adverbials; complex nouns; prepositional phrases; sentence construction; speaking/listening skills of discussion and effective sharing of ideas; personal targets for the year Unit 2: Reading (fiction) skills workshop more complex inference; using textual evidence of literary, rhetorical and grammatical features; narrative tension, setting; role-play and drama; speaking and listening skills of discussion and collaboration Unit 3: Speaking and listening skills workshop Organization of effective explanations and presentations; working collaboratively in a group to formulate plans of action; ways to ask and answer questions; rules of formal debate Class reading book; plenary; 2 minute presentation without notes; 4 minus presentation with notecards 5 spelling tests (10 works each every 2 weeks) 5 creative writings of 500-1000 and 1000-1500 words 2 group projects 1 paired presentation	Unit 3 (continues into winter term): Speaking and listening skills workshop Organization of effective explanations and presentations; working collaboratively in a group to formulate plans of action; ways to ask and answer questions; rules of formal debate Unit 4 Leaning more about fiction Planning; narrative structure; function of character and type; physical description and dialogue to convey character; textual interpretation and evidence; collaboration and discussion Group projects 4 Spelling tests 3 creative writing assignments Finish class read book Begin free read book free read project- 1 hour per week given to students for free read and project	Unit 5: Television and news Issues of fact and opinion; bias and viewpoint; note-taking; structure of news reports; issues of audience and purpose; collaboration. discussion; working in groups to formulate ideas and plan of action; role play and drama; interviews and variations in spoken language. Unit 6: School magazine project Structural; presentational; linguistically and rhetorical features of a range of non-fiction texts Unit 7: More non-fiction Exploration of presentation, organizational, linguistic and literary features of leaflets, reports, reviews, magazine articles and summaries, across reading and writing Units 5-7 are combined- Project complete based Units inter-tying with each other Role playing- create a news report on natural disasters from around the world. Each group completes 3. Everyone participates Creative writings= 3 articles; 2 feature articles and 1 interview piece Free read/ class read book and comprehension packet	Unit 8 Poetry Please Effect of literary, structural and linguistic features; development of poet's ideas; comparison of poems from different cultures; discussion and collaboration, role play and drama Unit 9: Myths and legends from around the world Exploration of a wind range of tests; development of a writer's idea, viewpoint and themes, and relating to other tests read; comparison of texts from different cultures and times; exploration of how difference audiences respond to texts; role-play and drama; collaboration and discussion Interactive poetry notebook: Free verse, haiku, ballade, ode, elegy, black out poetry Compare and contrast European myths and legends 3 creative writings - one focused on folk tale 1 poetry piece presented to class 1 creative writing presentation to class 1 free form presentation on a topic of their choice

		2 presentations- 1 filmed for news report. One creative writing article presented 3 spelling tests	

Grade 7 Mathematics

TERM 1 Autumn	TERM 1 Winter	TERM 2 Spring	Term 2 Summer
Number Ni Integers, powers and roots Np Place value, ordering and rounding Nf Fractions, decimals, percentages, ratio and proportion Nc Calculation	Algebra As Sequences, functions and graphs Problem solving Using understanding and strategies in solving problems	Geometry Gs Shapes and geometric reasoning Gp Position and movement G Measure Gl Length, mass and capacity Gt Time and rates of change Ga Area, perimeter and volume	Handling data Dc Planning and collecting data Dp Processing and presenting data Di Interpreting and discussing results Db Probability

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Grade 7 International maths

TERM 1 Autumn	TERM 1 Winter	TERM 2 Spring	Term 2 Summer
Algebra -negative numbers -indices and powers -prime factor decomposition -sequences	Algebra -linear functions -algebraic operations -equations Geometry -angle relationships -constructions	Algebra -operations with fractions -decimals, percentages Geometry -area, perimeter -3d shapes -surface area, volume	Geometry -surface area, volume -transformations Statistics -Interpreting data -charts, graphs REVISION

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Grade 7 Science

TERM 1 Autumn	TERM 1 Winter	TERM 2 Spring	Term 2 Summer
BIOLOGY Plants Food and digestion The circulatory system Respiration	BIOLOGY Reproduction and development CHEMISTRY States of matter Elements and compounds Mixtures	CHEMISTRY Material changes PHYSICS Measuring motion Sound	PHYSICS Light Magnetism REVISION

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GRADE 8A and 8B

CURRICULUM

Grade 8 ELL

TERM 1 Autumn	TERM 1 Winter	TERM 2 Spring	Term 2 Summer
Reading /Literature • Elements of nonfiction • Strong and Weak Arguments • Author's Purpose • Main Idea and Supporting Details • Model Essay Analysis • Novel-Diary of Anne Frank **Writing** • Apply writing process through research small project-sources included • One Expository essay of at least 750 words • Range of sentences features demonstrating control • 5 creative writing essays of at least 500-1000 words **Grammar / Conventions (Through writing process)** • Sentences variety and structure **Vocabulary** • Using context clues • Selected root words • Literary vocabulary	**Reading / Literature** • Elements of Fiction with emphasis on theme and plot development • Analysis and discussion • Mood and Tone • Figurative Language • Short Story Study **Writing** • Range of sentences features demonstrating control • Mini project • 5 creative writing essays of at least 750 words (narrative,-Focus on POV) **Grammar / Conventions (Through writing process)** • Use grammar and structure correctly in technical writing **Vocabulary** • Commonly confused words • Denotative & connotative meanings • Word parts – root words • Literary vocabulary • Transition words and phrases **Speaking/Listening/**	**Reading / Literature** • Analysis of poetical devices • Figurative Language • Novel Study-TBD **Writing** • Persuasive essay of at least 1000 words • Narrative paper • Range of sentences features demonstrating control • Poem with poetic devices (10) **FCAT style writing prompt practice including feedback provided by the teacher, and a revise, rewrite and published work sample* **Grammar / Conventions (Through writing process)** • Shifts in pronoun number and person • Correct vague pronouns • Use commas, parentheses and dashes correctly • Vary sentence pattern for meaning and style **Vocabulary** • Literary vocabulary • Root words • Idioms	**Reading / Literature** • Elements of Drama • Elements of folk tales, legends, myths, and tall tales • Novel Study-TBD **Writing** • Analysis or comparison essay of literary work or works of at least 1000 words • Range of sentences features demonstrating control • Large Research project with sources and support from text. • Formal letter writing • 3 creative writing essays of at least 750 words (expository and persuasive) Use sources and text support for writing **FCAT style writing prompt practice including feedback provided by the teacher, and a revise, rewrite and published work sample* **Grammar / Conventions(Through writing process)** • Misplaced modifiers

• Transition words and phrases • 5 Vocabulary quizzes **Speaking/Listening/ Viewing** • Student Presentations • Class discussions • Student led discussions • Socratic seminars-*a formal discussion, based on a text, in which the leader asks open-ended questions.* • Oral presentations	**Viewing** • Student Research Presentations • Class discussions • Student led discussions • Oral presentation	• 5 Vocabulary quizzes **Speaking/Listening/ Viewing** • Student Presentations • Class discussions • Student led discussions • Oral poetry readings	• Verb shifts **Vocabulary** • Literary vocabulary • Root words • 5 Vocabulary quizzes **Speaking/Listening/ Viewing** • Dramatic Reading/formal speech • Media interpretation • Propaganda • Use speaking and listening to build up increasing personal confidence, managing and manipulating the content of their presentation • Oral presentations

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Grade 8 Mathematics

TERM 1 Autumn	TERM 1 Winter	TERM 2 Spring	Term 2 Summer
Number Ni Integers, powers and roots Np Place value, ordering and rounding Nf Fractions, decimals, percentages, ratio and proportion Nc Calculation	**Algebra** Ae Expressions, equations and formulae As Sequences, functions and graphs	**Geometry** Gs Shapes and geometric reasoning Gp Position and movement	**Measure** Gl Length, mass and capacity Ga Area, perimeter and volume **Handling data** Dc Planning and collecting data Dp Processing and presenting data Db Probability **Problem solving** Using techniques and skills in solving mathematical problems Using understanding and strategies in solving problems

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Grade 8 Science

TERM 1 Autumn	TERM 1 Winter	TERM 2 Spring	Term 2 Summer
Biology Plants Living things in their environment Variation and inheritance	Chemistry Material properties Energy changes Reactivity Salts	Chemistry Rates of reaction Laboratory work Creating lab reports Physics Forces in action	Physics Electricity Energy Renewable and non-renewable energy

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GRADE 9

IGCSE CURRICULUM

Cambridge IGCSE Mathematics (0580)
An essential subject for all learners, Cambridge IGCSE Mathematics encourages the development of mathematical knowledge as a key life skill, and as a strong basis for more advanced study. The syllabus aims to build learners' confidence by helping them develop competence and fluency with mathematical concepts, methods and skills, as well as a feel for numbers, patterns and relationships. The syllabus also places a strong emphasis on solving problems and presenting and interpreting results. Learners also gain an understanding of how to communicate and reason using mathematical concepts.

TERM 1 Autumn	TERM 1 Winter	TERM 2 Spring	Term 2 Summer
UNIT 1 Reviewing number concepts Making sense of algebra Lines, angles and shapes	Collecting, organizing and displaying data UNIT 2 Fractions and standard form Equations and rearranging formulae	Perimeter, area and volume Introduction to probability UNIT 3 Sequences and sets	Straight lines and quadratic equations Pythagoras' theorem and similar shapes Averages and measures of spread

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Cambridge IGCSE English - First Language (0500)

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- develop the ability to communicate clearly, accurately and effectively when speaking and writing
- use a wide range of vocabulary, and the correct grammar, spelling and punctuation
- develop a personal style and an awareness of the audience being addressed.

Learners are also encouraged to read widely, both for their own enjoyment and to further their awareness of the ways in which English can be used. Cambridge IGCSE First Language English also develops more general analysis and communication skills such as inference, and the ability to order facts and present opinions effectively.

TERM 1 Autumn	TERM 1 Winter	TERM 2 Spring	Term 2 Summer
Unit 1 Reading – paragraphs, summary, skimming, comparing Unit 2 Directed writing – styles, comparing, book review, journal, leaflet, blog, autobiography, advertisement, formal letter	Unit 3 Composition – the language of description, planning, imaginary description Unit 4 Reading – for information, sequencing ideas, key points, sequencing	Unit 5 Directed writing – genres, comparing Unit 6 Composition – describing a process, chronological framework, adding details, memoir, novel, informative account	Unit 7 Reading – expanding notes, comparing style and purpose, understanding writing devices, sentence structure, writers' effect analysis Summary

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Cambridge IGCSE English as a Second Language (Speaking endorsement) (0510)

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The aim is to achieve a level of practical communication ideal for everyday use, which can also form the basis for further, more in-depth language study. In Syllabus 0510, marks for the speaking component do not contribute to the overall grade candidates receive for the written components. A count-in speaking component is offered in Syllabus 0511.

TERM 1 Autumn	TERM 1 Winter	TERM 2 Spring	Term 2 Summer
Unit 1 Content – Science and technology Language and vocabulary – Comparatives and superlatives, present simple Unit 2 Content – Food and fitness Language and vocabulary – skimming and scanning, collocations, adjectives, past simple	Unit 3 Content – Communities Language and vocabulary – Collective nouns, active verbs, suffixes Unit 4 Content – Animals and us Language and vocabulary – Simile and metaphor, the future tense, opinions	Unit 5 Content – Working life Language and vocabulary – getting the gist, jargon Writing a resignation letter Case studies Counselling Creating a scene for a play	Unit 6 Content – Travel and transport Language and vocabulary – Past continuous tense, questions, predicting, relative pronouns Revision

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Cambridge IGCSE Sciences - Co-ordinated (Double) (0654)

Cambridge IGCSE Co-ordinated Sciences gives learners the opportunity to study Biology, Chemistry and Physics within a cross-referenced, scientifically coherent syllabus. It is a double award qualification, earning two grades. Learners gain an understanding of the basic principles of each subject through a mix of theoretical and practical studies, while also developing an understanding of the scientific skills essential for further study.

They learn how science is studied and practised, and become aware that the results of scientific research can have both good and bad effects on individuals, communities and the environment. As well as focusing on the individual sciences, the syllabus helps learners to understand the technological world in which they live, and take an informed interest in science and scientific developments.

TERM 1 Autumn	TERM 1 Winter	TERM 2 Spring	Term 2 Summer
BIOLOGY Cells - characteristics of living things - cells and organisms Movement in and out of the cells - diffusion - osmosis	BIOLOGY Biological molecules - carbohydrates - fats - proteins - enzymes	BIOLOGY Plant nutrition - photosynthesis - leaves Animal nutrition - diet - digestion - teeth - the alimentary canal	BIOLOGY Transport in plants - systems - water uptake - transpiration Transport in mammals - the circulatory system - the heart, blood vessels, blood
CHEMISTRY Planet Earth - the atmosphere - water treatment - the crust The nature of matter - states of matter - separating and purifying - atoms and molecules	CHEMISTRY Elements and compounds - The Periodic table - Trends in groups and periods - Chemical bonding - The chemical formulae of elements and compounds - Metals, alloys and crystals	CHEMISTRY Chemical reactions - Chemical reactions and equations - Types of chemical reactions - Redox reactions - Electrolysis	CHEMISTRY Acids, bases and salts - Acid and alkali solutions - Metal oxides and non-metal oxides - Alkalis and bases - Salts - Preparing soluble salts

- electron arrangements in atoms			
PHYSICS <u>1 General physics</u> 1.1 Length and time 1.2 Motion 1.3 Mass and weight 1.4 Density 1.5 Forces 1.5.1 Effects of forces 1.5.2 Turning effect 1.5.3 Conditions for equilibrium 1.5.4 Centre of mass 1.6 Momentum	PHYSICS 1.7 Energy, work and power 1.7.1 Energy 1.7.2 Energy resource 1.7.3 Work 1.7.4 Power 1.8 Pressure	PHYSICS <u>2 Thermal physics</u> 2.1 Simple kinetic molecular model of matter 2.1.1 States of matter 2.1.2 Molecular model 2.1.3 Evaporation 2.1.4 Pressure changes 2.2 Thermal properties and temperature 2.2.1 Thermal expansion of solids, liquids and gases 2.2.2 Measurement of temperature 2.2.3 Thermal capacity (heat capacity) 2.2.4 Melting and boiling	PHYSICS 2.3 Thermal processes 2.3.1 Conduction 2.3.2 Convection 2.3.3 Radiation 2.3.4 Consequences of energy transfer <u>3 Properties of waves, including light and sound</u> 3.1 General wave properties 3.2 Light 3.2.1 Reflection of light 3.2.2 Refraction of light 3.2.3 Thin converging lens 3.2.4 Dispersion of light 3.3 Electromagnetic spectrum

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GRADE 10

IGCSE CURRICULUM

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TERM 1 Autumn	TERM 1 Winter	TERM 2 Spring	Term 2 Summer
UNIT 4 Understanding measurement Further solving of equations and inequalities Scale drawings bearings and trigonometry Scatter diagrams and correlation	UNIT 5 Managing money Curved graphs Symmetry	Histograms and frequency distribution diagrams UNIT 6 Ration, rate and proportion More equations, formulae and functions	Vectors and transformation Probability using tree diagrams and Venn diagrams REVISION

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TERM 1 Autumn	TERM 1 Winter	TERM 2 Spring	Term 2 Summer
Unit 8 Directed writing – Emotive vocabulary choices, persuasive devices, evoking sympathy, complaint letter, appeal letter Unit 9 Composition – engaging the reader, adapting a text, planning narratives, mini-saga, narrative composition	Unit 10 Reading – Looking at style, summary practice, vocabulary range Unit 11 Directed writing – writing non-fiction, adopting a position, spelling, punctuation, rhetoric, discourse markers, analysing and refuting an argument	Unit 12 Composition – Narrative dialogue, viewpoint and character, fairy tale, short story, narrative composition Unit 13 Giving a talk and engaging in dialogue	Unit 14 Group discussion and making a speech, distinguishing facts and opinions, public speaking evaluating Revision

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The aim is to achieve a level of practical communication ideal for everyday use, which can also form the basis for further, more in-depth language study. In Syllabus 0510, marks for the speaking component do not contribute to the overall grade candidates receive for the written components. A count-in speaking component is offered in Syllabus 0511.

TERM 1 Autumn	TERM 1 Winter	TERM 2 Spring	Term 2 Summer
Unit 7 Content – Leisure and entertainment Language and vocabulary – prefixes, conjunctions, adverbs Unit 8 Content – Hobbies and interests Language and vocabulary – Persuasive writing, jargon	Unit 9 Content – Customs and cultures Language and vocabulary – Synonyms and antonyms, punctuation Writing a web page Delivering a short speech Organizing a campaign	Unit 10 Content – The past and the future Language and vocabulary – Homophones, past and present tenses Unit 11 Content – Communication Language and vocabulary – Anecdotes, Register and purpose, continuous tense	Unit 12 Content – Global issues Language and vocabulary – Concise language, conjunct phrases, comparing and contrasting, reposted speech Writing a review product Delivering a talk Review

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Cambridge IGCSE Sciences - Co-ordinated (Double) (0654)

Cambridge IGCSE Co-ordinated Sciences gives learners the opportunity to study Biology, Chemistry and Physics within a cross-referenced, scientifically coherent syllabus. It is a double award qualification, earning two grades. Learners gain an understanding of the basic principles of each subject through a mix of theoretical and practical studies, while also developing an understanding of the scientific skills essential for further study.

They learn how science is studied and practised, and become aware that the results of scientific research can have both good and bad effects on individuals, communities and the environment. As well as focusing on the individual sciences, the syllabus helps learners to understand the technological world in which they live, and take an informed interest in science and scientific developments.

TERM 1 Autumn	TERM 1 Winter	TERM 2 Spring	Term 2 Summer
BIOLOGY Respiration and gas exchange - tobacco smoking Coordination and homeostasis - The human nervous system - The eye - Hormones - Coordination and response in plants - Homeostasis	BIOLOGY Reproduction in plants - Asexual and sexual reproduction - Flowers Reproduction in humans - Human reproductive organs - Fertilization and development - The menstrual cycle - HIV/AIDS	BIOLOGY Inheritance - Chromosomes - Cell division Variation and selection - Variation - Selection	BIOLOGY Organisms and their environment - Ecology - Energy flow - The carbon cycle - Human influences
CHEMISTRY Quantitative chemistry - Chemical analysis and formulae - The mole and chemical formulae - Calculations involving gases	CHEMISTRY Patterns and properties of metals - The alkali metals - Aluminum - The transition elements - The reactivity of metals Industrial inorganic chemistry	CHEMISTRY Organic chemistry - Carbon - Alkanes - Alkenes - Hydrocarbon structure - Alcohols - Ethanol	CHEMISTRY Chemical analysis and investigation - Chemical analysis - Inorganic analysis - Organic analysis - Experimental design and investigation - Practical skills

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- Moles and solution chemistry How far, how fast -Energy changes in chemical reactions - Rates of reaction - Catalysts - Reversible reaction	- The extraction of metals by carbon reduction and electrolysis - Ammonia and fertilizers - Sulfur and sulfuric acid - The chlor-alkali industry - Limestone - Recycling metals	Petrochemicals and polymers - Petroleum - Alternative fuels and energy sources - Addition polymerization - Condensation polymerization	Revision
PHYSICS 3.4 Sound <u>4 Electricity and magnetism</u> 4.1 Simple phenomena of magnetism 4.2 Electrical quantities 4.2.1 Electric charge 4.2.2 Current 4.2.3 Electromotive force 4.2.4 Potential difference 4.2.5 Resistance 4.2.6 Electrical working	PHYSICS 4.3 Electric circuits 4.3.1 Circuit diagrams 4.3.2 Series and parallel circuits 4.3.3 Action and use of circuit components 4.5 Dangers of electricity 4.6 Electromagnetic effects 4.6.1 Electromagnetic induction 4.6.2 a.c. generator 4.6.3 Transformers	PHYSICS 4.6.4 The magnetic effect of a current 4.6.5 Force on a current-carrying conductor 4.6.6 d.c. motor <u>5 Atomic physics</u> 5.1 The nuclear atom 5.1.1 Atomic model 5.1.2 Nucleus 5.2 Radioactivity 5.2.1 Detection of radioactivity 5.2.2 Characteristics of the three kinds of emission 5.2.3 Radioactive decay 5.2.4 Half-life 5.2.5 Safety precautions	PHYSICS <u>Exam preparation</u>