

The International School @ ParkCity



4

**Key Stage**

**Curriculum  
Information Booklet**

**2016-2017**

[www.ISP.edu.my](http://www.ISP.edu.my)

# Welcome from the Head of Secondary

Dear Students and Parents,

Welcome to Key Stage 4 at the International School @ ParkCity. I hope that you find this booklet, combined with the Options Information booklet, a useful guide in helping you to make the right choices at Key Stage 4. At Key Stage 3 (Years 7 - 9) all students follow the same curriculum that introduces students to a wide range of subjects and disciplines. When students reach Year 10 they are ready to make decisions and are in a better position to choose subjects based on their individual skills, talents and interests.

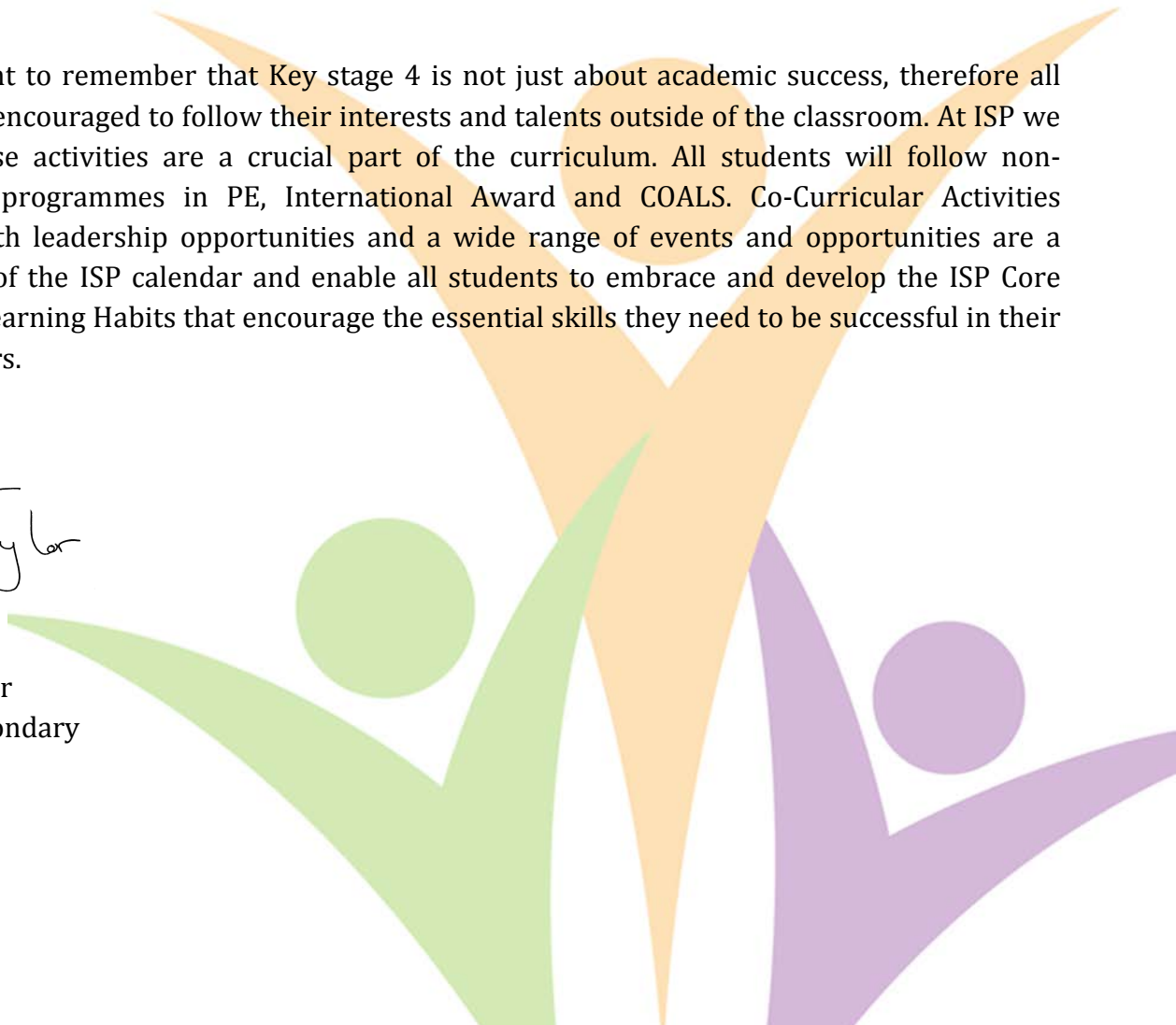


The IGCSE Key Stage 4 (Years 10 & 11) curriculum is designed to provide students with a broad and balanced range of courses whilst enabling them to experience different aspects of subject areas. The curriculum has been carefully chosen to prepare students for the demands and rigours of Key Stage 5 (Years 12 & 13) and beyond, whilst opening their eyes to new possibilities. This is a significant phase in ISP students' lives and it is important that the right choices are made for the right reasons. Therefore the teaching staff at ISP will give as much guidance and advice as is necessary to ensure each student has chosen a suitable path at Key Stage 4. At Key Stage 4 we encourage students to be open-minded, independent and critical thinkers. It is important that they take ownership of their education and engage fully with the curriculum. Our expectations are high but we believe that all students will reach, and exceed, their potential with the right support, attitude and work ethic.

It is important to remember that Key stage 4 is not just about academic success, therefore all students are encouraged to follow their interests and talents outside of the classroom. At ISP we feel that these activities are a crucial part of the curriculum. All students will follow non-examination programmes in PE, International Award and COALS. Co-Curricular Activities combined with leadership opportunities and a wide range of events and opportunities are a regular part of the ISP calendar and enable all students to embrace and develop the ISP Core Values and Learning Habits that encourage the essential skills they need to be successful in their chosen careers.

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Simon Taylor  
Head of Secondary



ISP Curriculum For Year 10

Subject	Term 1	Term 2	Term 3
<b>Art</b>	Painting media and Illustration Project based units of work focusing on skill development: Research and idea development Drawing and mark making Printmaking Painting media and Illustration	Graphic Communication: Students learn to respond to briefs using selected media. Research and idea development Layout design - Selecting and arranging image, colour, typography to communicate ideas.	Selected exam coursework theme developed using a wide range of mediums that foster creativity and exploration.  Work completed in direct response to assessment criteria (50% of coursework to be completed by the end of term 3)
<b>Additional Mathematics</b>	Matrices Surds and Indices Permutations and Combinations The Binomial Theorem	Radian Measure Set Theory Coordinate Geometry Algebraic Division and The Remainder Theorem	Further Quadratics Calculus 1 - Introduction to Differentiation
<b>Biology</b>	Classification and cells Nutrition in plants and animals	Transport in plants and animals Gas exchange, respiration and excretion	Coordination and control
<b>Business Studies</b>	Business activity Classification of businesses Enterprise, business growth and size Types of business organisation Business objectives and stakeholder objectives	Motivating workers Organisation and management Recruitment, selection and training of workers Internal and external communication	Marketing, competition and the customer Market research Marketing mix Marketing strategy
<b>Chemistry</b>	Particle Theory Experimental techniques Atoms, elements and compounds Stoichiometry	Electricity and chemistry Chemical changes	Chemical reactions Acids bases and salts
<b>Coordinated Science</b>	<b>Biology</b> Cells Nutrition Enzymes  <b>Chemistry</b> Particle theory Experimental techniques Atoms, elements and compounds Stoichiometry <b>Physics</b> Motion Forces Energy, Work & Power	<b>Biology</b> Plant transport systems Human transport and exchange systems  <b>Chemistry</b> Kinetic Theory Thermal Properties Heat Transfer  <b>Physics</b> Electricity & chemistry Energy changes in chemical reactions	<b>Biology</b> Respiration Co-ordination and control Reproduction in plants  <b>Chemistry</b> Chemical reactions Acids and alkalis  <b>Physics</b> Properties of waves Sound Light EM Spectrum
<b>Design Technology</b>	Working with woods: Marking out, cutting, shaping	Working with metals: Marking out, cutting, shaping	Working with plastics: Marking out, cutting, shaping

	<p>joining and finishing processes (Haiku Assessment 1)</p> <p>Introduction to Papers 1 &amp; 3</p> <p>Design and Make Task 1 - mini project work</p>	<p>joining and finishing processes (Haiku Assessment 2)</p> <p>Drawing/presentation techniques, including using SketchUp Make 2015 (CAD)</p> <p>Design and Make Task 2 - mini project work</p>	<p>joining and finishing processes. (Haiku Assessment 3)</p> <p>Introduction to coursework requirements (25% of coursework to be completed by the end of the term)</p> <p>End of year exam preparation</p>
<b>Drama</b>	<p>Theatre Practitioners, their ideas and concepts</p> <p>Developing devised drama from stimulus</p> <p>Performance of devised pieces</p> <p>Drama terminology and writing</p> <p>Contemporary monologues</p>	<p>Scripted Drama - a study of a play</p> <p>Form and content</p> <p>From page to stage -</p> <p>Performance of script extracts</p> <p>Shakespeare Monologues</p>	<p>Devised drama</p> <p>Documentary drama or Verbatim Theatre</p> <p>Study of style and content</p> <p>Performance of created pieces</p> <p>Exam preparation</p>
<b>Economics</b>	<p>The basic economic problem: Choices and the allocation of resources</p> <p>Allocation of resources: how markets work; market failure</p>	<p>Allocation of resources: How markets work; market failure (continued)</p> <p>The individual as producer, consumer and borrower</p>	<p>The private firm as producer and employer</p> <p>Role of government in the economy</p>
<b>English Language</b>	<p>Introduction to: Writer's effects</p> <p>Note taking</p> <p>Summarising</p> <p>Directed Writing and composition</p>	<p>Development of: Writer's effects</p> <p>Note taking</p> <p>Summarising</p> <p>Directed Writing and composition</p>	<p>Development of: Writer's effects</p> <p>Note taking</p> <p>Summarising</p> <p>Directed Writing and composition</p>
<b>English Literature</b>	<p>Introduction to poetry</p> <p>Study of poems from anthology "Songs of Ourselves"</p>	<p>Continued study of poetry</p> <p>Anthology</p> <p>Introduction to Prose Set Text</p>	<p>Continued study of poetry anthology</p> <p>Continued study of Prose Set Text</p>
<b>French</b>	<p>Present tense</p> <p>Past tense</p> <p>Talking about myself</p> <p>Family</p> <p>Adjectives</p> <p>Opinions</p>	<p>Towns</p> <p>France</p> <p>Negatives</p> <p>Future tense</p> <p>Household tasks</p> <p>Reflexive Verbs</p>	<p>School</p> <p>Clothes</p> <p>Food</p> <p>Restaurants</p> <p>Sport</p> <p>Free-time</p>
<b>Geography</b>	<p>Theme 2 - Natural Environments:</p> <p>Plate Tectonics</p> <p>Rivers</p> <p>Coasts</p> <p>Coral Reefs</p> <p>Weather and Climate</p> <p>Tropical Rainforests</p>	<p>Theme 2 - Natural Environments:</p> <p>Hot desert</p> <p>Human Activities and impacts</p> <p>Theme 1 - Population and Settlement:</p> <p>Population growth</p> <p>Population instability</p> <p>Population Structure</p> <p>Population Density</p>	<p>Theme 1 - Population and Settlement:</p> <p>International Migration</p> <p>Rural Settlements</p> <p>Urban Settlements</p> <p>Urbanisation</p> <p>Urban Problems</p> <p>Part B: Geographical Skills</p> <p>Map work</p>
<b>History</b>	<p>The peace treaties of 1919-23</p> <p>The League of Nations</p>	<p>The collapse of international peace.</p>	<p>America's policy of containment</p>

		The start of the Cold War	The USSR's control over Eastern Europe 1948 to 1949
<b>Information &amp; Communication Technology</b>	HTML coding and website authoring tools Types of Computers, Components, Hardware/Software, Operating Systems, Input / Output devices Communication - printed newsletters, email Presentation software	Storage devices, data & file types Creating professional documents Computer systems - banking Computer networks, internet/intranet, data protection	Systems Analysis - Analysis, design, testing, implementation & evaluation Developing questionnaires. Data capture forms and reports
<b>Mandarin Second Language</b>	Reading Comprehension Summarising and Skimming Texts Chinese Idioms Directed Writing and composition	Reading Comprehension Short Essays Summarising Chinese Idioms Directed Writing and composition	Reading Comprehension Analysing Texts Chinese Idioms Directed Writing and composition Practise extended writing
<b>Mandarin MFL</b>	Self Family Home	Neighbourhood and Region Everyday Life Different Subjects	School Facilities School Activities Future Career Plans
<b>Mathematics</b>	Reviewing number concepts Making sense of algebra Lines, angles and shapes Collecting, organising and displaying data Fractions Equations and transforming formulae Perimeter, area and volume	Introduction to probability Sequences and sets Straight lines and quadratic equations Pythagoras' Theorem and similar shapes Averages and measures of speed	Understanding measurement Further solving of equations and inequalities Scale drawings, bearings and trigonometry Scatter diagrams and correlation Managing Money
<b>Music</b>	Rhythm and Metre 1 Harmony and Tonality 1 Timbre and Dynamics 1	Ensembles and Instruments Compositional Devices 1 Structure and Form 1	Melody and Texture 1 Style Genre Composition Preparation
<b>Physics</b>	General Physics Length and time Speed, velocity and acceleration Mass and weight Density Energy, work and power Pressure	Thermal Physics Simple kinetic model of matter Thermal properties Transfer of thermal energy	Physics of Waves General wave properties Light Sound EEM Spectrum
<b>PE</b>	Skill Motivation and mental preparation Skeleton and joints Muscles and tendons  Volleyball Athletics Swimming	Circulatory and Respiratory Fitness Physique Drugs Health Diet  Basketball Badminton Table Tennis	Games: Safe practise Injuries Exercise and Training Leisure and recreation  Netball Weight Training for Fitness

<b>Psychology</b>	Memory Nonverbal communication Research skill development	Development of personality Stereotyping, prejudice and discrimination Research skill development	Research methods Research skill development
<b>Spanish</b>	Present tense Past tense Talking about myself Family Adjectives Opinions	Saying what you like to do in your free time Practise extended writing using imperfect, perfect and giving opinions Use of the superlative More use of adjectives and comparatives	School subjects Use verbs expressing necessity and obligation. Use future tense talking about plans and career Talk about work experience using conditional tense
<b>Malay</b>	Home life School Routine Eating, drinking and eating out Health, Fitness and Sport  Grammar: Kata Tanya (Wh questions) Kata Ganti Nama Diri (Pronouns) Kata Adjektif (Adjectives) Kata Majmuk (Compound words) Kata Arah (Location) Imbuhan (Prefix & suffix)	House and home Leisure and Entertainment  Grammar: Kata Bilangan (Counting words) Kata Bantu ( Helping words) Kata Kerja (Action words) Peribahasa (Proverbs) Penanda Wacana (Connectives) Imbuhan (Prefix & suffix)	Leisure, Entertainment and Activities Hometown, directions and public amenities Shopping  Grammar: Kata Hubung (Conjunctions) Kata Sendi (Prepositions) Kata Ganda (Plural) Penjodoh bilangan (Collective nouns) Antonim Sinonim Imbuhan (Prefix & suffix)



## ISP Curriculum For Year 11

Subject	Term 1	Term 2	Term 3
Art	<b>Paper 4: Coursework (continues)</b> Completion of coursework component including supporting preparatory work to show development of ideas leading to a fully developed final piece.	<b>Paper 1: Broad-based Assignment</b> Art Exam (8 hours). Students are given a minimum of 8 weeks for preparatory work to show development of ideas. Final piece is executed under exam conditions.	All work completed. Students who intend to continue to A level will begin planning a personalised course of study.
Additional Mathematics	Exponential Functions and Logarithms Functions Vectors in 2 dimensions Calculus 2 - Integration Further Trigonometry	Revision of all topics	Exam Preparation
Biology	Reproduction in plants and animals Inheritance, selection and genetic engineering	Environmental Biology	Exam preparation
Business Studies	Operations management Production of goods and services Costs, scale of production and break-even analysis Achieving quality production Location decisions	Financial information Business finance: needs and sources Cash-flow forecasting and working capital Income statements Balance sheets Analysis of accounts External influences on business activity Government economic objectives	Exam preparation
Chemistry	Properties of acids and bases The preparation of salts The periodic table Metals and water Sulphur and carbonates	Organic Chemistry Fuels Alkanes/alkenes Macromolecules	Exam preparation
Coordinated Science	<b>Biology</b> Reproduction in humans Inheritance and selection Variation  <b>Chemistry</b> Acids and bases The periodic table Reactivity of metals  <b>Physics</b> Electricity Circuits Magnetism	<b>Biology</b> Energy and ecosystems Human influence on ecosystems  <b>Chemistry</b> Organic chemistry  <b>Physics</b> Electromagnetism Radioactivity	Exam preparation
Design Technology	Continuing with coursework: Producing concepts, developing the best	Completion of coursework: Manufacturing, testing and	Exam preparation

	design  Revision for Paper 1: Product Design	modifying the product  Revision for Paper 3: Resistant Materials	
Drama	Completion of coursework portfolio  Devised/Scripted/Monologue performances	Devising a play using pre-released material by CIE Study of an extract of a play given by CIE Revision using past exam papers	Exam preparation
Economics	Role Of Government in the Economy(continued) Economics Indicators	Developed and Developing Economies International Aspects	Exam preparation
English Language	Consolidation of: Writer's effects Note taking Summarising Directed Writing and composition	Consolidation of: Writer's effects Note taking Summarising Directed Writing and composition	Exam preparation
English Literature	Continued study of poetry anthology Introduction to Drama text	Consolidation of Drama, Poetry and Prose study	Exam preparation
French	Conditional Tense Holidays Problems on holidays - hotels, youth hostels Weather	Health Illness Reporting past events Tobacco alcohol drugs Future plans and work	Exam preparation
Geography	Theme 1 - Population and Settlement: International Migration Rural Settlements Urban Settlements Urbanisation Urban Problems  Part C: Alternative to Coursework Preparing for Paper 4	Theme 3 - Economic development and resources: Agriculture Food shortages Work and employment Industry Tourism Energy Conservation	Exam preparation
History	Why did events in the Gulf matter, c. 1970-2000?  Depth Study: USA 1914-41	Depth Study continued  Exam Technique - focus on paper 4	Exam preparation
Information & Communication Technology	Information retrieval, Spreadsheet modelling  Data handling, data types, file structures  Creating and using a database. Complex queries, reports, wildcards	Security, risks, health & safety  ICT & society - employment, in the home, modelling & simulations	Exam preparation
Mandarin First Language	Reading Comprehension Directed Writing and composition Article summarising	Article reading Directed Writing and composition Article summarising Idioms	Exam Preparation



Mandarin MFL	Daily Essentials & Health Shopping Food and Beverages	Topic Presentation Preparation Role Plays Revision Techniques Exam Techniques <b>Oral Examination</b>	Exam preparation
Mathematics	Curved graphs Symmetry and loci Histograms and frequency distributions Ratio, rate and proportion More equations, formulae and functions	Transformations and matrices Probability using tree diagrams Revision	Exam Preparation
Music	Rudiments of Music 2 Harmony 2 Compositional Devices 2 Set Work Study Composition Preparation Performance Preparation	Texture 2 Set Work Study Performance Preparation Composition Preparation  Revision	Exam Preparation
Physics	Electrical quantities Electric circuits Electronics Magnetism Electromagnetism	Radioactivity The nuclear atom	Exam preparation
PE	Reasons and opportunities for participation in physical activity  Volleyball Weight Training for Fitness Netball Basketball	Reasons and opportunities for participation in physical activity  Athletics Final Coursework Moderation	Exam Preparation
Spanish	Travel and transport Holidays and tourism Weather and environment Use of interrogatives and prepositions Use of ir + infinitive Using different tenses and verbs to describe weather	Health, healthy eating and exercise Shopping Parts of the body Use of impersonal verbs Use of imperative Giving instructions and advice <b>Oral Examination</b>	Eating out Living life to the full Use the subjunctive Learn food types and recipes Numbers Use the imperfect subjunctive and uses of conditional
Malay	Natural Environment and Weather Travel and Transportation Education and Future Plan Speaking Practice for Oral Exam  Grammar: Kata Tanya (Wh questions) Kata Ganti Nama Diri (Pronouns) Kata Adjektif (Adjectives) Kata Majmuk (Compound words) Kata Arah (Location) Imbuhan (Prefix & suffix)	Career and Employment Holiday Meeting People  Grammar: Kata Bilangan (Counting words) Kata Bantu (Helping words) Kata Kerja (Action words) Peribahasa (Proverbs) Penanda Wacana (Connectives) Imbuhan (Prefix & suffix)  <b>Oral Examinations</b>	Revision and Exam Practice  Grammar: Kata Hubung (Conjunctions) Kata Sendi (Prepositions) Kata Ganda (Plural) Penjodoh bilangan (Collective nouns) Antonim Sinonim Imbuhan (Prefix & suffix)