Straits International School Rawang
Curriculum Overview
Year 11 Autumn Term 1 2024/2025

Autumn Term 1	What are we learning?	What KUS will we gain?	What will excellence look like?
Mathematics	Further solving of equations and inequalities, scale drawings, bearings and trigonometry, more equations, formulae and functions	Students will gain knowledge and skills in advanced algebraic techniques such as solving linear inequalities, and quadratic equations through methods like completing the square and using the quadratic formula. They will learn to manipulate algebraic fractions and apply these concepts in real-world problem-solving. In trigonometry, students will master scale drawings, bearings, and trigonometric ratios, including solving problems in two and three dimensions using the sine and cosine rules. Additionally, they will understand and interpret scatter diagrams to analyse correlations between variables and develop proficiency in setting up equations, rearranging formulae, and working with functions and function notation.	Excellence in these topics involves a thorough understanding and precise application of concepts. This includes solving quadratic equations using both the quadratic formula and completing the square, accurately handling algebraic fractions, and creating precise scale drawings. Mastery of trigonometric ratios, the sine and cosine rules, and three-dimensional trigonometry is essential for effective problem-solving. Additionally, correctly using function notation and solving problems involving non-right-angle triangles and bearings demonstrate advanced mathematical skills.
How will this be assessed?		Topical test, Minor assessment	
Additional Mathematics		Students will gain a range of mathematical skills through these topics. For trigonometric equations and identities, they will learn to solve and simplify equations using fundamental identities. Factorial notation introduces them to combinatorial counting, while arrangements, permutations, and combinations build their ability to calculate different ways to order and select items. Series, including arithmetic and geometric progressions, teach them to find sums and analyse patterns in sequences. Pascal's Triangle and the Binomial Theorem provide tools for expanding binomials and	Excellence in these topics involves a deep mastery of concepts and precise application. Students will solve trigonometric equations and simplify expressions using identities with accuracy. They will expertly apply factorial notation, permutations, and combinations to complex problems, demonstrating a clear understanding of arrangements and selections. Mastery of series, including arithmetic and geometric progressions, will allow them to find sums and analyse patterns effectively. Additionally, they will skilfully use Pascal's Triangle and the Binomial Theorem for expanding binomials and calculate the sum of infinite geometric series with precision.

		understanding combinatorial coefficients. Finally, the study of infinite geometric series enables them to calculate sums of convergent series, deepening their understanding of series and convergence.	
How will this be assessed?		Topical test, Minor assessment	
First Language English + Literature in English	Novel study: Things Fall Apart	Show detailed knowledge of the content of literary texts, supported by reference to the text; Understand the meanings of literary texts and their contexts, and explore texts beyond surface meanings to show deeper awareness of ideas and attitudes; Recognise and appreciate ways in which writers use language, structure and form to create and shape meanings and effects; Communicate a sensitive and informed personal response to literary texts.	Excellence in this subject looks like the ability to perceptively explore writers' methods and their effects on the reader. Students will be able to construct a detailed, complex essay analysing the use of language and structure in a text and engaging with this on a personal level, being evaluative and sensitive in their understanding of the text and being able to identify nuanced meanings, linking with both the novel as a whole and its context.
English as a second language	Healthy lifestyles	Make connections between the ideas in reading texts about healthy, natural foods; identify information and understand what is implied in listening texts about healthy living; understand and use quantifying phrases; give a short talk as part of a speaking task; understand a writer's purpose, intentions and feelings in a text about having a positive attitude	Give a speech about good ways to promote a healthy lifestyle; prepare a script about sport and exercise, and food and nutrition; read an article entitled when you look at the glass, is it half empty or half full? Create a mind map to illustrate ideas; give a short speech about staying healthy by eating healthily, spending time outdoors, exercising and having short sleeps; summarising an article entitled A teenage vegan.
How will this be assessed?		FLE/Lit: Essay question on an extract from the novel. ESL: Teacher/self-assessment, presentation, speaking tasks, projects, group work	
English as an Additional Language (EAL)	Family and home	Engage in a variety of activities to enhance their language skills, starting with describing people using coordinating and subordinating conjunctions ; focus on naming and describing family members using appropriate pronouns ; writing about a family occasion with descriptive words and adjectives ; listen, speak, read, and write about friends and the concept of friendship, using	Write about family occasions, incorporating descriptive words and adjectives to add detail and emotion. Use superlative and comparative adjectives to describe friends and relationships, showing understanding of how to compare. Describe their house and surroundings with precise vocabulary. Apply adverbs of frequency to discuss routines, demonstrating their ability to talk about how often activities occur. Use a broader range of vocabulary to express themselves in writing and

		superlative and comparative adjectives to describe people and relationships ; practice describing their house and daily activities using gerunds. Learn noun phrases, adverbs of frequency, prepositions of place, and the correct use of definite and indefinite articles. Throughout these activities, students will also develop important skills such as expanding their vocabulary, practicing spoken English, collaborating with peers, and reading to find specific information.	speaking. Engage in conversations with peers, showing improvement in spoken English and collaborative communication. Read texts with the ability to find and understand specific information, contributing to better comprehension skills. Write coherent and detailed descriptions of people, places, and activities, demonstrating correct grammar and varied sentence structures.
How will this be assessed?		Topical quiz, speaking activity, assessment, listening, writing activity.	
Combined Science	P3 Waves B10 Diseases and immunity	In Unit 3 of Physics, students will learn to describe the features of a wave, describe how waves can undergo reflection and refraction, use the equation for wave speed, state the law of reflection, define refraction, describe the action of a thin converging lens on a parallel beam of light, interpret ray diagrams, describe the dispersion of light, know the seven colours, know the main regions of the electromagnetic (EM) spectrum and their uses, describe the production of sound, state the human audible hearing range, describe how changes in amplitude and frequency affect the loudness and pitch of sound waves. In unit 10 of Biology, student will gain understanding to describe a pathogen, describe a transmissible disease, state how a pathogen is transmitted, state the features of viruses and describe active immunity.	Students should be able to: 1. Use wavelength, frequency, crest, trough, amplitude and wave speed to describe wave 2. Accurately explain and demonstrate how waves reflect and refract 3. Draw lens diagram to locate the image, object or lens 4. Calculate speed using $v = f\lambda$ 5. State the seven colours that can dispersed from white light 6. Remember the EM waves in right order from low to high frequency 7. State vibrations produce sound 8. State human audible hearing range is 20Hz to 20 000Hz 9. Describe a transmissible disease can be passed from one host to another 10. Describe active immunity as defence against a pathogen by antibody production in the body
How will this be assessed?		Quiz, group work and minor assessment	

Physics	P4 Electricity and magnetism	Students will learn simple phenomena of magnetism, electrical quantities, electric charge, electric current, electromotive force and potential difference, resistance, electrical energy and electrical power, circuit diagrams and circuit components, series and parallel circuits, action and use of circuit components, electrical safety, electromagnetic induction, the a.c. generator, magnetic effect of a current, force on a current-carrying conductor, the d.c. motor and the transformer.	Students should be able to: 1. Describe that magnets are metals that has the ability to attract or repel other magnets 2. State the differences between the properties of temporary magnets and the properties of permanent magnets 3. State the difference between magnetic and non-magnetic materials 4. Describe the uses of permanent magnets and electromagnets 5. State that there are positive and negative charges 6. Describe an experiment to distinguish between electrical conductors and insulators 7. Define electric current as the charge passing a point per unit time; recall and use the equation $I = Q t$ 8. Use the equation for e.m.f. $E = W Q$ 9. Use the equation for p.d. $V = W Q$ 10. Use the equation for electrical energy $E = IVt$ 11. Know how to construct and use series and parallel circuits 12. State the advantages of connecting lamps in parallel in a lighting circuit 13. State the hazards of damaged insulation overheating cables, damp conditions, excess current 14. State the factors affecting the magnitude of an induced e.m.f
How will this be assessed?		Quiz, group work and minor assessment	
Humanities History	Why did the wartime alliance collapse, 1945-49 and how the USA contained Communism in Korea	Students gain a deep understanding of the geopolitical tensions that shaped the early Cold War period. They learn to recall and organize key events, such as the Yalta and Potsdam Conferences, the Berlin Blockade, and the Korean War, while understanding the roles and motives of major	Students will recall detailed facts but also constructing clear and well-reasoned explanations of how and why these events occurred. Students will analyse the causes and consequences of the breakdown in wartime alliances, assess the effectiveness of the USA's containment policy in Korea, and

		figures like Stalin and Truman. This helps them see how historical events are connected, and how actions taken during this time had lasting global impacts.	interpret various historical sources in context. This includes evaluating different perspectives and understanding the intentions and beliefs of people from the past, demonstrating a comprehensive grasp of both the content and the skills required by the IGCSE Assessment Objectives (AOs).
How will this be assessed?		Paper 1 past examination questions, presentations and extended writing tasks.	
ICT	Website Authoring & System Life cycle	**Knowledge**: Understanding HTML elements and attributes, The phases of the system life cycle and their purpose in the development process. **Understanding:** How HTML and Web Expression work together to create and style web pages, and how each stage of the life cycle contributes to the successful creation of a system. **Skills:** Writing HTML code to structure web pages, using Web Expression and able to identify the stages of system life cycle	Excellence will be demonstrated by the ability to build a well-structured and visually appealing website using HTML and Web Expression. Excellence will be demonstrated by the ability to identify the correct stages and its attributes.
How will this be assessed?		Create a website for a small business or personal portfolio assignment A quiz covering key concepts of HTML and Web Expression including system life cycle phases and their purposes, Minor Assessment	
Malay Language	Perancangan Kerjaya Masa Depan	Students will gain knowledge of key vocabulary related to career planning, including job roles, educational requirements, and professional skills. They will develop skills to articulate and plan their career paths, write effective resumes, while correctly using *Kata Pembenda* (articles) in their writing and speaking. Additionally, students will understand the process of setting career goals, the importance of strategic planning, and the steps required to achieve their professional aspirations.	• Accurate and varied use of vocabulary related to career planning, including job roles and educational requirements. • Correct application of *Kata Pembenda* (articles) in both written and spoken Malay. • Ability to correctly fill in job application forms with attention to detail. • High-quality essays and presentations showcasing a comprehensive understanding of career planning concepts.

How will this be assessed?		Vocabulary test, essay, written and spoken assignments.	
Mandarin	Foreign Language: Interviewing Chinese Celebrities 第二语言：回收资源与可再生能源 第一语言：	**Foreign Language:** In Year 11 Mandarin as a Foreign Language, the topic "Interviewing Celebrities" will be assessed through **Knowledge, Understanding, and Skills (KUS):** **Knowledge** • **Vocabulary:** Students will learn vocabulary related to interviews, media, and celebrities, including terms for various types of questions and responses. • **Characters:** Mastery of characters relevant to interview settings and media terminology. • **Grammar:** Understanding and using advanced grammar structures, such as question forms, reported speech, and formal language appropriate for interviews. **Understanding** • **Interview Techniques:** Students will gain insight into effective interview techniques and question types used in professional settings. They'll understand the cultural nuances of interviewing celebrities in Chinese contexts. • **Cultural Context:** Awareness of how celebrity interviews are conducted in China, including common practices and etiquette.	**Foreign Language:** Excellence in Year 11 Mandarin for "Interviewing Celebrities" means mastering vocabulary and grammar for professional interviews and showing deep understanding of interview techniques and cultural nuances. Students will excel in listening to and analysing interviews, conduct mock interviews with confidence and appropriate questioning, and read and comprehend complex interview materials. They will also write well-structured, engaging interview scripts. Excellence reflects a high level of fluency, accuracy, and cultural insight in handling celebrity interviews in Mandarin. **第二语言：**在十一年级的汉语作为第二语言课程中，“回收资源与可再生能源”主题的优秀表现包括：掌握相关的专业词汇和复杂汉字，运用高级语法准确讨论环境话题。学生展示对全球和中国环境保护的深刻理解，能够流利、自信地用汉语讨论回收和可再生能源，理解并分析高级环境文本，撰写有说服力的文章或报告。优秀表现反映了学生在汉语交流中对环境话题的高水平语言能力和文化意识。 **第一语言：**学生将阅读与生活及生命有关的文章如：《快手刘》、《细细的潮音》、《欧小姐》等，及文言文《核舟记》、《满井游记》等，通过课堂讨论及回答问题从而探讨文中的相关的知识点以及提高学生的写作技巧。

		Skills • **Listening:** Ability to comprehend and analyse interviews with celebrities in Mandarin, including understanding the content and context. • **Speaking:** Skill in conducting mock interviews, asking relevant questions, and responding appropriately in a simulated interview scenario. • **Reading:** Comprehension of written interview transcripts or articles, understanding the structure and style of celebrity interviews. • **Writing:** Ability to write structured interview questions and responses, creating a coherent and engaging interview script. **第二语言：**在十一年级的汉语作为第二语言课程中，“回收资源与可再生能源”主题将通过以下知识、理解和技能进行评估： **知识** - 词汇:学生将学习与回收、环境问题和可再生能源相关的专业词汇。 - 汉字:掌握与环境可持续发展相关的复杂汉字。 - 语法:理解并应用高级语法结构，如条件句和被动语态，讨论环境话题。 **理解** -环境意识:学生将深入理解回收和可再生能源在全球和中国的意义，探索这些实践的实施方式及其在中国环境保护中的文化重要性。	

		-句子构建:能够构建复杂句子，准确描述环境实践和问题，反映对主题的成熟理解。 **技能** -听力:提高对环境话题详细讨论的理解能力，包括新闻报道和纪录片。 -口语:自信地讨论回收和可再生能源话题，使用准确的词汇和语法。 -阅读:理解关于环境问题的高级文本，包括科学文章和政策讨论。 -写作:撰写有说服力的关于环境可持续性的文章或报告，展示语言能力和环境知识。 这些评估确保学生能够以流利、准确且具有文化意识的汉语讨论复杂的环境话题。 **第一语言：**学生通过阅读与生活及生命有关的文章，对不同的故事展开讨论，并从中提升对现代汉语及古代汉语的阅读理解能力。另外，学生在进相关课题进行探讨，发表自己的看法，利用所学到的写作手法书写不同主题的文章。	
How will this be assessed?		Group discussion, homework and assessment.	
Art & Design	Component 1	In this unit, students will gain a comprehensive understanding of the specific requirements and objectives of Component 1 in the IGCSE exam, while expanding their knowledge of various media, processes, and techniques in art and design. They will recognize the importance of personal expression and analytical skills in meeting assessment criteria. Students will also learn to select and control media effectively to create	Excellence will be demonstrated by students' ability to confidently and independently select, control, and experiment with a range of media and techniques. Their work will show thoughtful organization of elements, resulting in visually balanced and meaningful compositions. Students will demonstrate strong analytical skills, both in their personal responses and when evaluating form, relationships, and techniques in their work. Their problem-solving abilities will shine through as they address artistic challenges, with

		cohesive work, understanding the significance of form, composition, and relationships in their artwork. Through critical thinking and evaluation, they will develop the ability to solve creative problems, organize visual elements, and refine technical skills in a range of media. Additionally, students will enhance their analytical skills by evaluating both their own work and that of others, while cultivating problem-solving abilities to produce original, meaningful personal responses.	outcomes that are original, personal, and reflective of their understanding of the IGCSE requirements. Excellence will also be shown in their ability to communicate a clear and mature artistic vision.
How will this be assessed?		• **Formative Assessment:** ○ Ongoing feedback and assessment of sketchbook work, including initial ideas, research, and experimentation with materials. ○ Observation of students' ability to organize visual elements and solve problems creatively throughout the course. • **Summative Assessment:** ○ Assessment of the final project for Component 1 based on IGCSE criteria, including creativity, technical skill, composition, and personal response. ○ Evaluation of how well students demonstrate control over media and techniques, and how effectively they communicate their artistic vision. ○ Judging the final presentation of their work, including clarity of thought, problem-solving, and the use of analytical skills to complete the project.	
Humanities – Travel & Tourism	Unit 4: Customer service in travel & tourism	Understanding the importance of customer service in travel and tourism; Explaining the delivery of customer service in travel and tourism; Discussing the provision of customer service for different types of tourists; Evaluating the skills required when working in the travel and tourism industry.	Excellence looks like a good understanding of all concepts and ideas explored in the unit. Students will be able to fully demonstrate their understanding of the importance of customer service and its delivery through answering exam-style questions in which they are able to evaluate the importance of certain factors in detail.
How will this be assessed?		A set of exam-style questions.	

Humanities – Global Perspectives	Team Project Individual Report Written Exam	Students will gain a deep understanding of key global issues such as sustainability, human rights, and development, while developing critical thinking and research skills. They will learn to analyse complex problems from multiple perspectives, communicate their ideas effectively, and work collaboratively to propose solutions. The course also fosters cultural awareness and ethical understanding, preparing students to be informed and active global citizens.	Excellence will be demonstrated by student's ability to critically analyse global issues from multiple perspectives, conduct thorough research, and communicate ideas clearly. An excellent student will actively contribute to collaborative efforts, showing respect for diverse viewpoints while proposing innovative solutions. Their work will demonstrate a deep understanding of global interconnectedness and a strong sense of responsibility as a global citizen.
		Team project & minor assessment.	
PE	Individual sports: Athletics Team sports: Dodgeball Healthy Living- fun games	**Athletics**: Students will gain knowledge and practical experience in various athletic disciplines, including running, jumping, and throwing events. They will learn the fundamentals of each event, focusing on proper technique, form, and the importance of physical conditioning. Through these activities, students will improve their speed, strength, endurance, and coordination, which are essential for overall athletic performance. **Dodgeball** Students will develop key skills in throwing with accuracy and power, catching and blocking to defend against incoming balls, and dodging to avoid being hit. They will also enhance their decision-making abilities, learning when to attack, defend, or dodge based on the flow of the game. Through these activities, students will improve their hand-	**Athletics:** • **Running**: Demonstrating exceptional speed, endurance, and efficient technique, with strong starts, smooth transitions, and powerful finishes. • **Jumping**: Mastery of techniques, showing strong take-off power, good body control in the air, and precise landings. • **Throwing**: Displaying superior strength and technique in events like shot put, discus, or javelin, with consistently long and accurate throws. **Dodgeball**: • **Throwing**: Demonstrating powerful, accurate throws that consistently target opponents, with the ability to vary speed and angles to outmaneuver defenses. • **Catching/Blocking**: Showing quick reflexes and strong hands, catching or blocking incoming balls with confidence and composure, even under pressure.

		eye coordination, agility, strategic thinking, and teamwork.	• **Dodging**: Exhibiting exceptional agility and quickness, effectively dodging incoming throws with precise timing and minimal movement. • **Decision-Making**: Displaying sharp strategic thinking, making smart decisions on when to throw, dodge, or block, and anticipating opponents' moves to gain a tactical advantage. **Healthy Living** • **Teamwork**: Proactive collaboration, effective support, and positive team dynamics. • **Communication**: Clear, precise, and effective verbal and non-verbal communication. • **Decision-Making**: Quick, strategic choices with strong situational awareness. • **Body Movement/Spatial Awareness**: Efficient, coordinated movement with keen spatial awareness. • **Behavior**: Consistent respect, responsibility, and positive influence on others.
How will this be assessed?	Athletics- students will be assessed on running, jumping and throwing events Dodgeball- throwing, catching/blocking, dodging, decision making Healthy Living: teamwork, communication, decision making, body movement/spatial awareness		