

DBS Wakra Curriculum Overview Year 10 Autumn Term 2 2021/2022

What are we learning?	What KUS will we gain?	What will excellence look like?
English as a Second Language	Reading a range of text types for comprehension, analysis and to infer meaning; building vocabulary; understanding the requirements of the examination and practising in exam conditions; listening to a range of texts for understanding; understanding accent, the difference between spoken and written texts and colloquial language; understanding the requirements of the examination and practising in exam conditions; writing: this will involve writing in a range of different forms for different forms for different forms for different purposes and understanding the conventions of each of these entities; writing within time limits and following word counts closely as per the examinations; ensuring understanding of word classification and their usage; ensuring understanding of the	Identifying the key words in texts and summarise the content efficiently; identifying if they need to skim read or read for meaning and to do both rapidly; answering the comprehension questions quickly, following the instructions closely; inferring meaning and demonstrating their understanding with clarity and grammatical accuracy; listening and identifying the key points of a variety of spoken texts; navigating accent and colloquial phraseology; answering questions easily whilst listening to the texts; identifying the purpose, audience and form from the question efficiently and writing using the conventions with ease; writing using correctly formatting and with highly accurate and wide ranging vocabulary and punctuation; understanding the requirements of the mark scheme and how to implement it; answering discrete questions on word classification and tense; transferring knowledge to written and spoken English with ease.
	English as a Second	English as a Second Language Reading a range of text types for comprehension, analysis and to infer meaning; building vocabulary; understanding the requirements of the examination and practising in exam conditions; listening to a range of texts for understanding; understanding; understanding accent, the difference between spoken and written texts and colloquial language; understanding the requirements of the examination and practising in exam conditions; writing: this will involve_writing in a range of different forms for different purposes and understanding the conventions of each of these entities; writing within time limits and following word counts closely as per the examinations; ensuring understanding of word classification and their

		different tenses and	
		their application.	
How will this b	e assessed?	Assessed writing in	response
		2. Full Reading and \	•
		3. Listening Paper	S - com a speci
Maths	IGCSE key skills	Strengthening and	Number: completing advanced calculator
	Topic 1: Number	expanding knowledge	problems; converting units of
	Topic 2:	of topics that will	measurements accurately alongside
	Probability	perform the basis of	solving problems involving rational and
	Topic 3:	much of the future	irrational numbers.
	Algebra	IGCSE content; applying	Algebra: setting up and solving quadratic
	Topic 4: Shape and	key concepts and	problems using both the quadratic
	Space	knowledge to real life	formula and inequalities.
	'	situations and problem	Probability: using 2 and 3 circle Venn
		solving scenarios; re-	diagrams to display data through
		examining a variety of	intersecting circles; using set notation to
		important skills from	represent data correctly and calculating a
		algebra, probability and	range of probabilities.
		shapes and number to	Shapes: applying knowledge of formulas
		provide the strong	and shape properties to calculate
		foundations that the	Area and circumference of a circle
		IGCSE requires.	 Area and arc length of a sector
			 Volume and surface area of 3D
			shapes;
			using algebra to answer problem solving
			examples
How will this b	e assessed?	Teacher/peer assessmen	t, teacher stage grading, self-assessment,
		ongoing tests/quizzes. Exam at the end of Year 11.	
Biology	The nature and variety of	Carrying out	Justifying equipment choice and
	living organisms.	investigations using the	measurement that are used during
	Structure and functions	equipment accurately	investigations; explaining how to reduce
	in living organisms	and safely; exploring	risks and recording and analysing evidence
		the characteristics of	in an effective way; describing the
		living things; describing	characteristics require to classify living
		the common features	things; describing the common features
		shown by eukaryotic	displayed with eukaryotic organisms and
		organisms: plants,	their functions; describing the common
		animals, fungi	features displayed with prokaryotic
		and protoctists;	organisms and their functions; describing
		describing the common	examples of pathogens and their key
		features of prokaryotic	features; describing the levels of
		organisms;	organisation in organisms: organelles,
		understanding	cells, tissues, organs and systems;
		pathogens;	describing the structures and functions of
		understanding the level	the nucleus, cytoplasm, cell membrane,
		of organisation in	cell wall, mitochondria, chloroplasts,
		organisms; exploring	ribosomes and vacuole; explaining the

cell structure and functions; describing the key structures and function of plant and animal cells; explaining the similarities and difference between them; identifying structures of structure of biological molecules and understanding the role of enzymes as biological catalysts in metabolic reactions; describing how different factors affect the rate of enzyme reactions; investigating the different processes that allow movement of substances into and out of cells; identifying the leaf structure and describing photosynthesis; understanding balanced diet in human, the process of digestion.

difference between plant and animal cells; describing the structure of carbohydrates, proteins and lipids and Investigate food samples for the presence of glucose, starch, protein and fat; investigating how enzyme activity can be affected by temperature and pH; describing the different processes that allow substances to move within cells e.g. diffusion, osmosis and active transport; describing key structure and functions of in a leaf and explain the process of photosynthesis using word and symbol equations; investigating different factors that affect the rate of photosynthesis; describing the balanced diet in humans which includes appropriate proportions of carbohydrate, protein, lipid, vitamins, minerals, water and dietary fibre; identifying the structure and explain the functions of the human alimentary canal.

How will this be assessed?

Teacher/peer assessment, teacher stage grading, self-assessment, ongoing tests/quizzes. Exam at the end of Year 11.

Chemistry

Principles of chemistry

Understanding the three states of matter and the interconversions; classifying a substance as an element, compound or mixture and describe the different experimental techniques for the separation of mixtures; looking at the periodic table; describing the structure of atoms and its sub-atomic particles; writing word equations

Describing the three states of matter in terms of the arrangement, movement and energy of the particles and explain the inter-conversions; describing these experimental techniques for the separation of mixtures: simple distillation, fractional distillation, filtration, crystallisation, paper chromatography; identifying the arrangement of elements in the Periodic Table; describing an atom and its sub-atomic particles (mass and charge); calculating the relative atomic mass of an element (Ar) from isotopic abundances; writing word equations and balanced chemical equations (including state symbols); carrying out calculations

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		and balanced chemical	based on the amount of substances
		equations and doing	required or used; describing key features
		accurate calculation;	of covalent and ionic bonding and how
		describing covalent and	they are formed.
		ionic bonding.	
How will this b	e assessed?	Fully written reports for i	investigation into students will apply their
		knowledge and understa	nding to complete the task with the
		guidance from the succes	ss criteria grade ladder; end of topic test to
		develop and continue to	build exam technique and challenge.
Physics	Forces and motion	Plotting and explaining	Using the following units: kilogram (kg),
	<u>Electricity</u>	distance-time graphs	metre (m), metre/second (m/s),
		along with using the	metre/second2 (m/s2), newton (N),
		relationship between	second (s) and newton/kilogram (N/kg),
		average speed,	along with newton metre (Nm), kilogram
		distance moved and	metre/second (kg m/s); using the
		time; using the	conservation of momentum to calculate
		relationship between	the mass, velocity or momentum of
		acceleration, change in	objects; knowing and using the
		velocity and time;	relationship between the moment of a
		describing the effects	force and its perpendicular distance from
		of forces between	the pivot: moment = force × perpendicular
		bodies such as changes	distance from the pivot; explaining how
		in speed, shape or	positive and negative electrostatic charges
		Direction; knowing that	_
		1	are produced on materials by the loss and
		the initial linear region of a force-extension	gain of electrons; explaining the potential
			dangers of electrostatic charges, e.g. when
		graph is associated	fuelling aircraft and tankers.
		with Hooke's law; using	
		the following units:	
		ampere (A), coulomb	
		(C), joule (J), ohm (Ω),	
		second (s),	
		volt (V) and watt (W);	
		understanding why a	
		current in a resistor	
		results in the electrical	
		transfer of energy and	
		an increase in	
		temperature, and how	
		this can be used in a	
		variety of domestic	
		contexts; knowing and	
		using the relationship	
		between power,	
		current and voltage:	
		power = current ×	
		voltage; using the	
	ı		t e e e e e e e e e e e e e e e e e e e

		relationship between	
		energy transferred,	
		current, voltage and	
		time:	
		energy transferred =	
		current × voltage ×	
		time; knowing and	
		using the relationship	
		between voltage,	
		current and resistance:	
		voltage = current ×	
		resistance; knowing	
		and using the	
		relationship between	
		charge, current and	
		time:	
		charge = current ×	
		time.	
How will this b	e assessed?	Fully written reports for i	nvestigation into students will apply their
		knowledge and understa	nding to complete the task with the
		guidance from the succes	ss criteria grade ladder; end of topic test to
		develop and continue to	build exam technique and challenge.
Arabic	يدرس الطلاب مجموعة من	يقوم الطلاب بقراءة	القراءة
	الموضوعات الرئيسة المقررة من	مجموعة مختلفة من	يجب على الطلاب قراءة العديد من النصوص المرتبطة
	قبل (IGCSE) وهي	النصوص للاستيعاب	بالعناوين الرئيسية والتدريب على كيفية فهم النص
	1- قضايا الشباب	والفهم لتحصيل	والإجابة عن الأسئلة المرتبطة به وخاصة السؤال الرابع
	2- التعليم	مجموعة من	والثامن والتاسع من الورقة الأولى وأيضا يتدرب جيدا
	3- الإعلام	المفردات واللغوبات	على الأختصار والاختزال من خلال الإجابة كثيرا عن
	كما يدرسون بعض القواعد	الجديدة التي	السؤال العاشر أيضا من الورقة الأولى.
		تساعدهم على تنمية	القواعد:
	المعرب والمبنى	مهارة الكتابة	يجب عليه مراجعة دروس القواعد بصفة مستمرة
	إعراب الفعل المضارع وبناء	والارتقاء بالأسلوب	والتدريب المستمر على إجابة الأسئلة المختلفة
	الماضي والأمر	كما تنمى لديهم	المرتبطة بالقواعد و بأشكالها المتنوعة وذلك من
		القدرة النقدية وفهم	ر و
		المضمون كاملا	والرابع عشر من الورقة الأولى.
		للقدرة على إجابة	الكتابة:
		الأسئلة المطروحة	على الطالب أن يستخدم المفردات والتراكيب الجديدة
		على النص	التي استمدها من خلال قراءته للنصوص في الكتابة
		كما يتدرب الطلاب	ويكون قادر على توصيل المعلومات بشكل جيد ويكون
		على القواعد النحوية	لديه القدرة على الإقناع باستخدام الوسائل المختلفة
		بالقدر الكافي حتى	مع استخدام بعض من التراكيب البلاغية وكذلك
		يستطيع ضبط ما	استخدام علامات الترقيم ويكون ذلك من خلال
		يقرأه وما يكتبه .	التدريب على إجابة السؤال الأول والثاني والثالث من
		- 	الورقة الثانية
How will this b	e assessed?		التطبيقات الكاملة التي تحتوي على جميع
TIOW WITH CITIS D			- القواعد -المهارات(القراءة والفهم – الكتابة
			الإملاء
		1	الإملاء

			الاختبارات الفصلية التي تحتوي على جميع
		– القواعد -المهارات (القراءة والفهم – الكتابة الدرد ،	
			الإملاء) بجانب الاختبارات الشفوية التي تقيس قدرة
			بجانب الاحتبارات السفوية التي تقيس قدره الطالب على الاستماع الجيد
			التحدث باللغة العربية الفصيحة
MFL	Mi familia v vo	Talking about daily	Describing orally or in writing families,
IVIFL	<u>Mi familia y yo</u> En mi barrio	lives, families and	relationships, daily routine, chores, future
	<u>Eli illi barrio</u>	towns in detail;	plans and towns (pros and cons) with a
		practising all 4 skills	good degree of grammar accuracy;
		(listening, reading,	applying knowledge to understand both
		writing and speaking).	written and oral texts.
		Grammar focus:	Written and oral texts.
		Present, Past and	
		future tenses, both	
		regular and irregular	
		verbs, as well as some	
		conditional tense with	
		regular verbs.	
How will this be	e assessed?	1 Mid Term examination	
		1 End of Term examination	
		Keyword tests at regular	intervals
Geography	Physical Environments:	Applying and building	Demonstrating knowledge of locations,
	Rivers, Coasts and	on the fundamental	places, processes, environments and
	<u>Hazards</u>	building blocks of	different scales; demonstrating geographic
		geographical	understanding of concepts and how they
		knowledge; actively	are used in relation to places,
		engaging in the process	environments and processes; applying
		of geographical enquiry	knowledge and understanding to
		to develop as effective	interpret, analyse and evaluate
		and independent	geographical information and issues and
		learners, and as critical	to make judgements; selecting, adapting
		and reflective thinkers	and using a variety of skills and techniques
		with enquiring minds;	to investigate questions and issues and
		developing their	communicate findings.
		knowledge and	
		understanding of	
		geographical concepts	
		and appreciating the	
		relevance of these	
		concepts to our	
Henry will this !	d?	changing world	
How will this be assessed? 1 Mid Term examination		20	
		1 End of Term examination	
		Keyword tests at regular intervals	
	Extended writing tasks for exam style question		

History	The USA, 1918-41	Developing and	Demonstrating knowledge and
-		extending knowledge	understanding of the key features and
		and understanding of	characteristics of the periods studied;
		specified key events,	explaining, analysing and making
		periods and societies in	judgements about historical events and
		history, and of the wide	periods studied using second-order
		diversity of human	historical concepts; using a range of
		experience; engaging in	source material to comprehend, interpret
		historical enquiry to	and cross-refer sources; analysing and
		develop as	evaluating historical interpretations in the
		independent learners	context of historical events studied.
		and as critical and	
		reflective thinkers;	
		developing the ability	
		to ask relevant	
		questions about the	
		past, to investigate	
		issues critically and to	
		make valid historical	
		claims by using a range	
		of sources in their	
		historical context;	
		developing an	
		awareness that	
		different people,	
		events and	
		developments have	
		been accorded	
		historical significance	
		and how and why	
		different	
		interpretations have	
		been constructed	
		about them; organising	
		and communicating	
		their historical	
		knowledge and	
		understanding in	
		different ways and	
		reach substantiated	
How will this b	o accorda	conclusions.	
How will this b	e assesseu?	1 Mid Term examination	an an
		1 End of Term examination	
		Keyword tests at regular intervals Extended writing tasks for exam style question	
ICT	Topic 1 : Digital devices	Learning about the	Demonstrating an understanding of
	Topic 2 : Connectivity	range of digital devices	various digital devices and their uses;
		TOTAL OF MISTRAL MCVICCS	

available, including selecting suitable devices/software to developments in the meet the needs of a selected task: features and knowing about types of mobile phones, functionality of digital smartphones and specialist phones and devices and how this how they connect to the network (SIM); impacts on the way knowing that RAM stands for Random that they are used by Access Memory and that ROM stands for individuals, Read Only Memory; explaining in detail how digital devices exchange data using organisations and society; learning the accurate terminology; understanding the need to understand the different methods implemented to principles of these improve data security; selecting suitable devices and selecting methods of securing data for a particular suitable devices and context. associated hardware and software to use in particular situations; understanding the ways in which digital devices exchange data and communicate with each other and with the larger systems supporting online organisations; learning about the increasing importance of 'access everywhere' developments. How will this be assessed? Teacher/peer assessment, teacher stage grading, self-assessment, ongoing tests/quizzes. Exam at the end of Year 11. Ongoing coursework. Applying a breadth of Demonstrating understanding that all Design Core content Technology technical knowledge design and technological activity takes and understanding of place in contexts that influence the the characteristics, outcomes of design practice; identifying advantages and methods of generating energy and its disadvantages of uses; identifying characteristics, application, advantages and disadvantages emerging technologies; recognising the of modern & smart materials, composites importance of the and technical textiles; showing evaluative process and understanding of how different respective criteria components can be used within when considering the mechanisms; understanding how an impact of new and electrical system can make a product emerging technologies function; differentiating between various

to a range of scenarios; paper and boards and metals by learning about the properties, structures and uses. processes, applications, characteristics, advantages and disadvantages of sources of energy, in order to be able to discriminate between them and to select appropriately; applying technical knowledge and understanding of the characteristics, applications, advantages and disadvantages of smart materials; understanding the performance, principles, applications and the influence on the design of mechanical devices; understanding the performance and functionality of using programmable components between them and selecting appropriately. How will this be assessed? Teacher/peer assessment, teacher stage grading, self-assessment, ongoing tests/quizzes. Exam at the end of Year 11. Ongoing coursework.