

DBS Wakra Curriculum Overview Year 10 Autumn Term 1 2021/2022

Year 10	What are we learning?	What KUS will we gain?	What will excellence look like?
Autumn	· ·		
Term 1			
English	English as a Second Language Paper 1 - Reading English as a Second Language Paper 2 - Listening Grammar skills focus	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; ensuring understanding of word classification and their usage; ensuring understanding of the different tenses and	Identifying the key words in texts and summarise the content efficiently; identifying whether to skim read or read for meaning and to do both rapidly; answering comprehension questions quickly, following the instructions closely; inferring meaning and demonstrating understanding with clarity and grammatical accuracy; listening and identifying the key points of a variety of spoken texts; navigating accent and colloquial phraseology; answering discrete questions on word classification and tense; transferring this knowledge to their written and spoken English with ease.
How will this be	e assessed?	their application. Reading: Paper 1 exam p	l ractice
. 75 17 17 11 1113 15		Writing: Grammatically assessed short essay on a subject of their	
		choice.	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
		Speaking and Listening: Paper 2 Listening exam practice.	
Maths	IGCSE key skills	Consolidating and	Understanding the concept of gradient
		stretching	and compare two lines using the gradient
		understanding of topics	and y-intercept; drawing and interpreting
		that will perform the	graphs; extending understanding of
		basis of much of the	graphs to Quadratic, and other non-linear

future IGCSE content; graphs; finding missing side lengths in 2D revisiting some key and 3D shapes using Pythagoras Theorem; skills from Number, using Circle Theorems; understanding how Algebra, Graphs and Trigonometry can be used, by using the **Shapes** Sin, Cos and Tan ratios to find missing side lengths and angles; factorising an algebraic equation; solving linear equations and simultaneous equations; finding the percentage of any amount and will extend this knowledge to growth and decay questions; using a compound interest formula to calculate the percentage change over time. How will this be assessed? Teacher/peer assessment, 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 and safely; exploring risks and recording and analysing evidence in living organisms 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; describing the common features of prokaryotic organisms; understanding pathogens; understanding the level of organisation in organisms; exploring 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

organisms and their functions; describing examples of pathogens and their key features; describing the levels of organisation in organisms: organelles, cells, tissues, organs and systems; describing the structures and functions of the nucleus, cytoplasm, cell membrane, cell wall, mitochondria, chloroplasts, ribosomes and vacuole; explaining the 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;

		metabolic reactions;	investigating different factors that affect
		describing how	the rate of photosynthesis; describing the
		different factors affect	balanced diet in humans which includes
		the rate of enzyme	appropriate proportions of carbohydrate,
		reactions; investigating	protein, lipid, vitamins, minerals, water
		the different processes	and dietary fibre; identifying the structure
		that allow movement	and explain the functions of the human
		of substances into and	alimentary canal.
		out of cells; identifying	
		the leaf structure and	
		describing	
		photosynthesis;	
		understanding	
		balanced diet in	
		human, the process of	
		digestion.	
How will this be assessed?		Teacher/peer assessmen	t, teacher stage grading, self-assessment,
		ongoing tests/quizzes. Exam at the end of Year 11.	
Chemistry	Principles of chemistry	Understanding the	Describing the three states of matter in
		three states of matter	terms of the arrangement, movement and
		and the inter-	energy of the particles and explain the
		conversions; classifying	inter-conversions; describing these
		a substance as an	experimental techniques for the
		element, compound or	separation of mixtures: simple distillation,
		mixture and describe	fractional distillation, filtration,
		the different	crystallisation, paper chromatography;
		experimental	identifying the arrangement of elements
		techniques for the	in the Periodic Table; describing an atom
		separation of mixtures;	and its sub-atomic particles (mass and
		looking at the periodic	charge); calculating the relative atomic
		table; describing the	mass of an element (Ar) from isotopic
		structure of atoms and	abundances; writing word equations and
		its sub-atomic particles;	balanced chemical equations (including
		writing word equations	state symbols); carrying out calculations
		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 be	e assessed?		investigation into students will apply their
			nding to complete the task with the
		_	ss criteria grade ladder; end of topic test to
		~	build exam technique and challenge.
Physics	Forces and motion	Plotting and explaining	Using the following units: kilogram (kg),
,	Electricity	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),
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average speed, distance moved and time; using the relationship between acceleration, change in velocity and time; describing the effects of forces between bodies such as changes in speed, shape or Direction; knowing that the initial linear region of a force-extension graph is associated 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 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

along with newton metre (Nm), kilogram metre/second (kg m/s); using the conservation of momentum to calculate the mass, velocity or momentum of objects; knowing and using the relationship between the moment of a force and its perpendicular distance from the pivot: moment = force × perpendicular distance from the pivot; explaining how positive and negative electrostatic charges are produced on materials by the loss and gain of electrons; explaining the potential dangers of electrostatic charges, e.g. when fuelling aircraft and tankers.

How will this be	e assessed?	knowledge and understa	investigation into students will apply their nding to complete the task with the ss criteria grade ladder; end of topic test to
Arabic	يدرس الطلاب مجموعة من الموضوعات الرئيسة المقررة من قبل (IGCSE) وهي 1- قضايا الشباب 2- التعليم 3- الإعلام كما يدرسون بعض القواعد كما يدرسون ومنها: المعرب والمبني المضارع وبناء الماضي والأمر		build exam technique and challenge. القراءة بلعناوين الرئيسية والتدريب على كيفية فهم النص والإجابة عن الأسئلة المرتبطة به وخاصة السؤال الرابع على الاختصار والاختزال من خلال الإجابة كثيرا عن السؤال العاشر أيضا من الورقة الأولى. على الاختصار والاختزال من خلال الإجابة كثيرا عن السؤال العاشر أيضا من الورقة الأولى. والتدريب المستمر على إجابة الأسئلة المختلفة يجب عليه مراجعة دروس القواعد بصفة مستمرة والتدريب المستمر على إجابة الأسئلة المختلفة المرتبطة بالقواعد و بأشكالها المتنوعة وذلك من والرابع عشر من الورقة الأولى. والرابع عشر من الورقة الأولى. على الطالب أن يستخدم المفردات والتراكيب الجديدة التي استمدها من خلال قراءته للنصوص في الكتابة ويكون قادر على توصيل المعلومات بشكل جيد ويكون التي استمدام بعض من التراكيب البلاغية وكذلك مع استخدام بعض من التراكيب البلاغية وكذلك استخدام علامات الترقيم ويكون ذلك من خلال
How will this be assessed? MFL Mi familia y yo For mi horrio		الورقة الثانية التطبيقات الكاملة التي تحتوي على جميع القواعد -المهارات(القراءة والفهم – الكتابة الإملاء الاختبارات الفصلية التي تحتوي على جميع القواعد -المهارات (القراءة والفهم – الكتابة الإملاء) الإملاء) الطالب على الاستماع الجيد الطالب على الاستماع الجيد التحدث باللغة العربية الفصيحة التحدث باللغة العربية الفصيحة	
	En mi barrio	lives, families and towns in detail; practising all 4 skills (listening, reading, writing and speaking).	relationships, daily routine, chores, future plans and towns (pros and cons) with a good degree of grammar accuracy; applying knowledge to understand both written and oral texts.

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		Grammar focus:	
		Present, Past and	
		future tenses, both	
		regular and irregular	
		verbs, as well as some	
		conditional tense with	
		regular verbs.	
How will this be assessed?		1 Mid Term examination	
		1 End of Term examination	on
		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	
		changing world	
How will this b	e assessed?	1 Mid Term examination	
		1 End of Term examination	on
		Keyword tests at regular	intervals
		Extended writing tasks for exam style question	
History	Changes in medicine,	Developing and	Demonstrating knowledge and
, , , , , , , , , , , , , , , , , , ,	c1848-c1948	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; engaging in	periods studied using second-order
		historical enquiry to	historical concepts; using a range of
		develop as	source material to comprehend, interpret
		•	i · · · · · · · · · · · · · · · · · · ·
		independent learners	and cross-refer sources; analysing and
		and as critical and	evaluating historical interpretations in the
		reflective thinkers;	context of historical events studied.
		developing the ability	
		to ask relevant	

		guestions about the	
		questions about the	
		past; investigating	
		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.	
How will this be	n accounted?	1 Mid Term examination	
HOW WIII this be	e assessed?		
		1 End of Term examination	
		Keyword tests at regular	
		Extended writing tasks fo	
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;
		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
		organisations and	how digital devices exchange data using
		society; learning the	accurate terminology; understanding the
		need to understand the	different methods implemented to
		i need to diidelstand the	different methods implemented to
			improve data security: solocting suitable
		principles of these	improve data security; selecting suitable
		principles of these devices and selecting	methods of securing data for a particular
		principles of these devices and selecting suitable devices and	, , ,
		principles of these devices and selecting suitable devices and associated	methods of securing data for a particular
		principles of these devices and selecting suitable devices and associated hardware and software	methods of securing data for a particular
		principles of these devices and selecting suitable devices and associated hardware and software to use in particular	methods of securing data for a particular
		principles of these devices and selecting suitable devices and associated hardware and software to use in particular situations;	methods of securing data for a particular
		principles of these devices and selecting suitable devices and associated hardware and software to use in particular situations; understanding the	methods of securing data for a particular
		principles of these devices and selecting suitable devices and associated hardware and software to use in particular situations;	methods of securing data for a particular
		principles of these devices and selecting suitable devices and associated hardware and software to use in particular situations;	methods of securing data for a particular

		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 b	e assessed?	Teacher/peer assessment, teacher stage grading, self-assessment,		
		ongoing tests/quizzes. Exam at the end of Year 11. Ongoing		
		coursework.		
Design	Advanced sketching skills	Tonal shading;	Developing and revising design ideas with	
Technology		isometric drawing;	both creativity and technical awareness;	
		rendering techniques;	shading effectively with smoothing	
		single point perspective	transition between dark shades and light	
		drawing; crating	tones; effective use of crating technique	
		technique;	showing accurate and proportionate	
		100		
		presentation drawing	representation of objects; demonstrating	
		• •		
		• •	representation of objects; demonstrating	
How will this b	e assessed?	presentation drawing Teacher/peer assessmen	representation of objects; demonstrating the use of several drawing and rendering techniques. t, teacher stage grading, self-assessment,	
How will this b	e assessed?	presentation drawing Teacher/peer assessmen	representation of objects; demonstrating the use of several drawing and rendering techniques.	