

	Autumn	Spring	Summer
English	Developing reading skills	Writing summaries	Selecting, analysing and using information
	 Exploring how to identify and unpack the explicit meanings of a text Exploring how to extract detailed and implied meanings from a text Considering strategies to identify relevant textual evidence and ideas Investigating how to overcome difficult and new vocabulary choices in a text Considering ways to unpack a text's purpose, meanings and sense of audience Exploring the effects created by a text through the use of different narrative voices Investigating how to unpack some of the hidden meanings and attitudes contained in a text 	 Investigating how to write an effective response to the summary question - Developing and enhancing writing to summarise skills Improving summary responses by reflecting upon how to use your own words Developing logically sequenced summary responses Developing precise and concise summary responses Enhancing the fluency and clarity of summary responses Exploring ways to identify implicit meanings and consider how they impact upon the reader -Developing ideas about a writer's ideas / use of language in a concise and logical 	 -Selecting and organising relevant information in a coherent and effective way -Developing coherent and logical texts by using supporting detail Investigating and analysing the effects of a range of literary devices -Exploring the effects of a range of key features of Persuasive writing, and how they can be used to convince the audience - Developing a detailed report using a range of key features Evaluating and reviewing the success of different types of texts -Exploring the key features of language and style used in a transcript Investigating the conventions of letter writing -Developing engaging and thoughtful articles using a range of key features to inform, explain and describe -Exploring how to compose effective speeches
	-Considering how the language, structure and register of a text are dependent on audience	ideas / use of language in a concise and logical manner Exploring how a writer's use of language	-Exploring how to compose effective speeches that inform and persuade -Exploring how to write an effective journal
	-Utilising a range of appropriate vocabulary choices to convey ideas to the reader accurately -Exploring how to effectively structure and sequence our writing	affects the reader's thinking and understanding Exploring how narratives are developed and sequenced Investigating ways to analyse how a character is presented	entry that informs, describes and reflects



	-Exploring how the success of different texts depends upon different groups of key features -Developing effective written texts in a variety of styles by using a range of appropriate key features -Experimenting in using a range of vocabulary choices and sentence structures to convey different voices in our writing -Considering ways to improve the accuracy of spelling and grammar structures	Considering how an argument can effectively persuade the reader	
Mathematics	Solving quadratic equations	Inequalities	Geometry
	 Solving quadratic equations using the quadratic formula and Vieta's formulae Factorising quadratic equations Solving word problems using quadratic equations Solving rational equations 	 Numerical inequality Properties of inequalities Addition and multiplication of inequalities Error and accuracy of approximation Intersection and union of sets Inequality, number line and interval notation of sets Inequality with one variable Compound and double inequalities Systems of inequalities with one variable 	 Bearings Angle of elevation, angle of depression Trigonometric ratios in right-angled triangles Relating angles and sides of right-angled triangles using sine, cosine, and tangent Solving problems in right-angled triangles using trigonometric ratios Sine, Cosine functions and transformations using degrees Modelling real-life situations using
	Functions/Quadratic function	 Solving non-linear inequalities Systems of inequalities with two variables 	trigonometric functions - Unit circle
	- Mappings	- Linear programming, including inequalities	- Radians
	- Function notation	Constant	- Trigonometric functions and transformations
	- Domain and range of functions	Geometry	using radians
	- Properties of functions.	- Solving complex problems using the area	applications (link to trigonometric functions)
	quadratic functions	formulae (Square, Rectangle, Triangle,	- Area of a triangle rule

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	 Different forms of quadratic functions and text problems Graphing different types of functions(quadratic) and understanding their characteristics Transformation of linear and quadratic functions Translations reflections and dilations Exponential functions Transformation of rational functions Transforming cubic functions Composite functions Inverse functions 	 Parallelogram, Trapezium, Circle) Pythagoras theorem Similar triangles Triangle and trapezium mid-segment theorems Finding the volume and surface area of regular and compound shapes, capacity Secant, tangent Arc length, sector area Using circle theorems to find lengths of chords. Measurement of angles and arcs Inscribed and central angles Relationships of tangent and secant lines in circles 	- Trigonometric identities
hysics	 Motion Scalars and vectors. Understand displacement, velocity and acceleration. Understand motion graphs. Understand the equations of motion. Understand momentum. Forces	 Energy Define 'Work' as the energy transferred when a force causes an object to move a distance. Solve problems using. Define 'Energy' as the capacity to do Work. List examples of 'Energy Stores'. Describe the energy transfers. Define 'Power' as the rate at which energy is transferred. 	 Electricity Define 'Current' as the rate of flow of charge Solve problems using formulae. State that the current in metals Recall that electrons flow in the opposite direction to 'Conventional Current'. Define 'Potential Difference' at the energy transferred per unit charge (moving across component in a circuit). {use of the torm (o m f / will not be opposited)
	- Define a Force as an interaction that	- Solve problems using formulae	term e.m.i. will not be expected}



tries to change an objects momentum.	- State that energy is conserved.	- Solve problems.
- List examples of forces.	- Define 'Useful' energy as the energy output	- State that for current to flow a closed
- Draw force vectors as arrows with length	in the forms a device was intended to	circuit
proportional to the magnitude of the	produce- Identify useful and wasted	- Define 'Resistance' as the ratio of the
force.	energies in common devices or situations.	potential difference across a component
 Describe how multiple forces can be 	 Calculate an unknown energy 	- Solve problems using formulae
represented by a single resultant force.	 Explain how energy tends to 	- State that a component with
- Calculate the resultant of several parallel	dissipate/spread out among objects in a	constant resistance is called an
forces.	system, and that system's surroundings, so	'Ohmic Conductor'.
 Use vector diagrams to find the resultant 	that it is stored in less useful ways.	 Identify an ohmic conductor from a graph
force in an unbalanced (non-equilibrium)	 Draw Sankey diagrams from data. 	 Calculate the resistance of an ohmic
system, or to find the unknown force in a	 Calculate the efficiency of a system using 	conductor from a graph or data table.
balanced (equilibrium) system.	 Solve problems using (equation 	 Sketch and identify I-V graphs for fixed
 Draw free-body diagrams for simple 	given).	resistors, bulbs/lamps, an diodes/LED's.
systems.	 Solve problems involving the transfer of 	 Sketch the I-V graph for a (negative
 Explain why stretching, compressing or 	energy between K.E., G.P.E. and E.P.E.	coefficient) thermistor or LDR when the
bending an object requires more than one	 Explain how the main energy sources 	conditions change, given the original curve.
force to be acting on the object.	available on Earth are used to generate	 Explain I-V graphs for fixed resistors,
 Distinguish between internal (acting 	electricity.	bulbs/lamps, and diodes/LED's.
between two objects inside the system)	 Define 'Renewable Energy sources' as 	- Explain the changes in the I-V graph for a
forces and external (acting on an object	sources which replenish themselves faster	thermistor or LDR when the conditions
in the system from outside it) forces.	than they can be used.	change.
- State and use Newton's First Law – An	- Compare and contrast the main energy	- Calculate the resistance of a component at
object maintains its state of motion	sources in terms of renewability, reliability,	specified potential difference given its I-V
unless acted upon by an external	cost to set-up, cost to run environmental	graph.
resultant force.	impact and limitations.	- Solve problems using (components
- State and use Newton's Second Law – An		and devices).
object accelerates when acted upon by –	Waves	- Draw and identify common component
an external resultant force.		symbols. (wire,cell, battery, switch, fixed
- Solve problems using, where m is the	- Describe waves as oscillations	resistor, variable resistor, LDR, thermistor,



Inertial mass.	that transfer energy without transferring	lamp, diode, ammeter, voltmeter).
-Define the 'Inertial Mass' as the resistance	matter.	-Describe the difference between series and
to changing the velocity of an object,	- Define the term 'Amplitude' as	parallel circuits.
given by . {The distinction between	- Define the term 'Wavelength' as the	 Draw and interpret simple circuit
inertial and gravitational mass will not	distance between two adjacent maxima (or	diagrams using common
be examined, and use of the term 'inertial'	minima).	component symbols.
will not be expected by the student}	- Define the term 'Frequency' as the number	 Explain why the resistance of two
 Define 'Weight' as the force exerted on 	of wavelengths passing a point per second.	identical resistors in series is higher than
an object (with mass) by gravity.	- Define the term 'Period' as the time taken	one of the resistors (qualitative only).
 Recall that the gravitational field 	for one whole wavelength to pass a point.	 Calculate the total resistance.
strength, g, is 10 m/s at the Earth's	 Label diagrams of waves with: 	 Explain why the resistance of two identical
surface, and that it will be different on	amplitude, wavelength or period, crest and	resistors in parallel is lower than one.
other planets/moons/etc.	trough.	 Calculate the total resistance of two
 Solve problems using, where g is given if 	- Solve problems.	Resistors in parallel
the object is not on the Earth's surface.	 Compare and Contrast transverse 	 Recall that the domestic supply in the UK is
 Explain why motion in a circle at a 	and longitudinal waves and give examples.	A.C. at 50 Hz, and that the voltage is
constant speed requires a constant force	 Define the term 'Reflection' as an abrupt 	equivalent to D.C. at 230V. {rms is a useful
(towards the centre of the circle).	change in direction of a wave.	term but is not required}
 State and use Newton's Third Law – 	 Define the term 'Refraction' as an 	 Describe the functions of the
When an object exerts a force on a	abrupt change in direction of a wave when	'Live', 'Neutral' and 'Earth' wires
second object, the second object exerts	it meets a boundary.	in a mains cable or electrical appliance.
an equal and opposite force on the first.	- Define the term 'Diffraction'.	 Identify 'Live', 'Neutral' and 'Earth'
 Identify Newton's Third Law force pairs. 	- Explain refraction.	wires by their colour codes. (Only
-State that a force can change the shape of	 Solve problems using where a light wave 	the current UK colour codes will
an object.	passes between air and a transparent	be examined, but an appreciation
 State that if an object returns to its 	material.	of the existence of past codes and
original shape when the force deforming		variation across countries should
it is removed then the change was		be encouraged}
elastic, otherwise, the change is inelastic.		 Describe how to safely wire a mains plug.
 State Hooke's Law as the extension of a 		{The position of wires will not be examined}



	 spring is directly proportional to the force causing the extension. Solve problems using. Outline an experiment to find the spring constant of a metal spring. Define the 'Limit of Proportionality' as the point beyond which Hooke's law no longer applies. 		 Identify common faults from mains plug diagrams. Explain common electrical hazards in the home.
Biology	Cell formation, structure, and functions	Respiratory system	Plants
	-Understand the characteristics of living organisms.	 Understand the role of gaseous exchange in human beings. 	- Understand the role of photosynthesis in plants.
	-Understand the basic structures and functions of cells.	Transport in animals	 Understand the structure of plant tissues and their key functions. Understand the plant transport function
	-Understand the working functions of a light microscope.	 Understand the function of the human heart and the circulatory system. 	Coordination, response and excretion
	-Understand levels of plant organisation.	Disease, immunity, and drugs	- Understand the nervous system in the
	Movement in and out of cells	- Understand the impact on the human body	human body. - Understand chemical coordination in
	 Understand the processes involved in diffusion. Understand the processes involved in osmosis. Understand the process of active transport 	and plants from diseases and immunity. - Understand the impact of medicinal and recreational drugs on the human body. - Understand the use of drugs in sport.	humans. - Understand chemical coordination in plants. - Understand the role of excretion in human beings.
	Biological molecules and human digestion		Reproduction Understand reproductive cell division. Understand plant reproduction.



	 Understand the structure of biological molecules. Understand the properties of Deoxyribonucleic Acid (DNA). Understand the function of enzymes. Understand animal nutrition and the digestive system. 		
Chemistry	States of matter	Understand the Periodic Table	Quantitative Chemistry
	 Describe solids, liquids, and gases in terms of particle arrangement proximity and motion. Diffusion and factors which influence diffusion Describe the pressure and temperature of gases in terms of motion of particles Differences of solids, liquids, and gases in terms of (i) volume, (ii) ability to flow, (iii) ability to be compressed, and (iv) relative kinetic energy of particles. Methods of purification 	 The changes from metallic to non-metallic character across a period The relationship between group number and number of electrons in outer shell and between period and number of electron shells The differences between metals and nonmetals The trends in physical and chemical properties of group 1 metals The trends in physical properties of the group VII elements (Halogens) Describe properties of transition elements Describe the noble gases including their electronic structure 	 Differentiate between metals and non- metals, metal and non-metal compounds Define the terms 'products' and 'reactants" Outline the following states of matter symbols: (i) s, (ii) l, (iii) g, (iv) aq Define the term 'spectator ions' Deduce formula of ionic compounds Construct word, chemical and balanced chemical equations Describe titrations, 'percentage yield' and 'percentage purity' Deduce relative atomic mass and relative formula mass
	- Apparatus for the measurement of time,		Air and water Chemistry
	temperature, mass, and volume - Paper chromatography and how to carry out the practical experiment - Purity of substances based on melting and boiling points	- Formation of ions by electrons loss or gain, ionic bonding, formation of ionic bonds	 Describe the chemical tests for water. Explain the problems of an inadequate supply of water.



	- Effect of impurities on melting and boiling	- Describe the lattice structure of ionic	- relative composition of gases in the
	points of substances	compounds	atmosphere
	- Methods of purification including in terms	- Describe covalent bonding in terms of	- Uses of nitrogen and oxygen
	of solubility, density, boiling points	sharing of electrons, formation of simple	- Explain the negative effects of air pollutants
		covalent bonds, 'lone pair of electrons'	- Explain the various stages of the carbon
		- Single, double and triple covalent bonds	cycle
		- Describe giant covalent structures	- Rusting and various methods of rust
		- Define the term 'metallic bonding',	prevention
	Atoms and the Periodic Table	properties of metals	
	- Relative mass and charge of a proton,		
	neutron, and electron		
	- Define the term relative atomic mass and		
	relative formula mass, isotopes		
	- The significance of the noble gas electronic		
	structure and outer shell electrons in terms		
	of chemical reactivity		
	- The differences between elements,		
	compounds, and mixtures		
Business	Business Functions	Organisation in Business	Internal and external influences in business
Studies			
	-The aim of this subject content is to improve	-The aim of this subject content is to allow	-The aim of this subject content is to improve
	the ability of learners in business functions	learners to demonstrate a basic	the candidate's understanding as to the way
	Learners will be introduced to a range of	understanding as to the importance of	in which internal and external influences
	business activities such as sales, marketing,	organisation within business.	affect business decisions, funding,
	operations, people and systems (including	-Learners must be able to demonstrate their	management and overall functions within
	processes).	knowledge of simple organisation structures,	business.
	- The intention is for learners to gain insight	these align with cortain types of husiness	
	as to now pushess is driven by a cross-	organisations	
		organisations.	



	section of activities which interweave and rely on each other to function successfully.	-Learners must also demonstrate a basic understanding as to the importance of effective employee engagement in business operations.	
History	Understand the motives and aims of the Big Three at Versailles. -Describe the map of Europe, particularly the German Empire and how it changed; the challenges faced by both old and new nations. -Explain to what extent they agree with the peace settlements. Justify their answer with well-supported facts.	Understand the extent of the League of Nations' success. -Analyse sources and describe how they portrayed the League of Nations. Moreover, explain if they agree or disagree with the message. - Describe how the League of Nations and Japan were portrayed. - Explain the how Japan ignored the power of the League.	Understand how Hitler's foreign policy to blame for the outbreak of war in Europe in 1939. -Explain how effective or ineffective was Neville Chamberlain's employment of the appeasement policy. Provide historical facts to support their answer. -Explain what determines the leaders' responsibility for the outbreak of the Second World War. Make a rating scale.
Geography	Rivers -Explain the main hydrological characteristics and processes which operate in rivers and drainage basinsDescribe and explain the formation of the landforms associated with these processesDemonstrate an understanding that rivers present hazards and offer opportunities for	 Population -Describe and give reasons for the rapid increase in the world's population. -Show an understanding of over-population and under-population. - Understand the main causes of a change in population size. 	Settlements (rural and urban) and service provision -Explain the patterns of settlement -Describe and explain the factors which may influence the sites, growth and functions of settlementsGive reasons for the hierarchy of settlements and services.



people. Explain what can be done to manage river flooding's impacts.	Give reasons for contrasting rates of natural population change.	
	-Describe and evaluate population policies.	
	Case Studies required for;	
	-A country which is overpopulated.	Urban settlement
Coastal areas	-A country with a high rate of natural	
	population growth.	-Describe and give reasons for the characteristics of, and changes in, land use in urban areas
-Demonstrate an understanding of the work	 A country with a low rate of population growth (or population decline). 	-Explain the problems of urban areas, their
and depositing.		causes and possible solutions.
-Describe and explain the formation of the landforms associated with these processes.	Migration	-An urban area or urban areas.
-Describe coral reefs and mangrove swamps and the conditions required for their	-Explain and give reasons for population	
development.	migration.	Urbanization
	-Demonstrate an understanding of the impacts of migration.	



	-Demonstrate an understanding that coasts	-Identity and give reasons for and implications	-Identity and suggest reasons for rapid urban
	present hazards and offer opportunities for	of different types of population structure.	growth.
	people.		
			-Describe the impacts of urban growth on
	-Explain what can be done to manage the		both rural and urban areas, along with
	impacts of coastal erosion	Population density and distribution	possible solutions to reduce the negative
			impacts.
			Case Study required for;
		Describe the factors influencing the density	
		-Describe the factors influencing the density	-A rapidly growing urban area in a developing
		and distribution of population.	country and migration to it.
			, 6
		Case Studies required for;	
		-A densely populated country or area (at any	
		scale from local to regional).	
		-A sparsely populated country or area (at any	
		scale from local to regional).	
Economics	The basic economic problem	The allocation of resources – price	Microeconomic decision makers
	•	determination	
	-Definition and examples of the economic		-The forms, functions and characteristics of
	problem in the contexts of: consumers;	-Definition, drawing and interpretation of	money.
	workers; producers; and governments.	demand and supply schedules and curves	-The role and importance of central banks and
	-The difference between economic goods	used to establish equilibrium price and sales	commercial banks for government, producers
	and free goods.	in a market.	and consumers.
	-Definitions and examples of land, labour,	-Definition, drawing and interpretation of	-Including income, the rate of interest and
	capital and enterprise. Examples of the	demand and supply schedules and curves	confidence – between different households
	nature of each factor of production.	used to identify disequilibrium prices and	and over time.

-The influences on the mobility of the various	shortages (demand exceeding supply) and	-Wage and non-wage factors.
factors.	surpluses (supply exceeding demand).	-The influences of demand and supply,
-The causes of changes in the quantity and	-Changing market conditions as causes of	relative bargaining power and government
quality of the various factors.	price changes.	policy, including minimum wage.
-Definition and examples of opportunity cost	-Demand and supply diagrams to be used to	-Reasons for differences in earnings
in different contexts.	illustrate these changes in market conditions	-Advantages and disadvantages for workers,
-Definition, drawing and interpretation of	and their consequences for equilibrium price	firms and the economy.
appropriate diagrams.	and sales.	-definition of a trade union
-The significance of the location of	-Calculation of PED using the formula and	-the role of trade unions in the economy
production points.	interpreting the significance of the result.	-Including engaging in collective bargaining on
-Movements along a PPC and opportunity	-Drawing and interpretation of demand curve	wages, working hours and working conditions;
cost.	diagrams to show different PED.	protecting employment; and influencing
-The causes and consequences of shifts in a	-The key influences on whether demand is	government policy. Factors influencing the
PPC in terms of an economy's growth.	elastic or inelastic.	strength of trade unions.
	-The relationship between PED and total	-Understand the advantages and
The allocation of resources	spending on a product/revenue, both in a	disadvantages of trade union activity
	diagram and as a calculation.	-classification of firms
-The difference between microeconomics	-The implications for decision making by	-small firms - The advantages and
and macroeconomics and the decision	consumers, producers and government.	disadvantages of small firms, the challenges
makers involved in each.	-Calculation of PES using the formula and	facing small firms and reasons for their
 How a market system works; including 	interpreting the significance of the result.	existence.
buyers, sellers, allocation of scarce	 Drawing and interpretation of supply curve 	-Causes and forms of the growth of firms
resources, market equilibrium, and market	diagrams to show different PES.	-mergers - Examples, advantages and
disequilibrium.	-The key influences on whether supply is	disadvantages of different types of mergers:
-Establishing that the economic problem	elastic or inelastic.	horizontal, vertical, and conglomerate.
creates three key questions about	-The implications for decision making by	-Economies and diseconomies of scale
determining resource allocation – what to	consumers, producers and government.	-Influences to include demand for the
produce, how, and for whom.	-definition of market failure	product, the price of different factors of
-How the price mechanism provides answers	-causes of market failure and consequences of	production, their availability and their
to these key allocation guestions.	market failure	productivity.

	 Definition, drawing and interpretation of appropriate diagrams. A supply curve to be drawn and used to illustrate movements along a supply curve with appropriate terminology, for example extensions and contractions in supply. The link between individual and market supply in terms of aggregation. The causes of shifts in a supply curve with appropriate terminology, for example increase and decrease in supply. 	-Definition of the mixed economic system -Government intervention to address market failure	 The reasons for adopting the different forms of production and their advantages and disadvantages. The difference between, and influences on, production and productivity. -definition of costs of production -calculation of costs of production -definition of revenue -calculation of revenue -objectives of firms The effect of having a high number of firms on price, quality, choice, profit. -Characteristics, advantages and disadvantages of monopoly.
French	Ma famille et mes amis	Mes passe- temps	Mes vacances
	 Describing my family and myself • physical descriptions and descriptions of personality using the key verbs avoir and être + accurate adjectival agreement. • describing family relationships • use of reflexive verbs • what is a good friend? • reinforcement of the above + expansion of vocabulary. • a person I admire • use of the comparative and superlative • marriage – pros, cons, and future • use of the conditional tense • use of the near/ simple future tense • use of modal verbs to express desire. expressions of preference using a variety of quality language structures • festivals and 	 Sports • use of jouer and faire • reinforcement of the conjugation of -er verbs depuis + present tense • expressing complex opinions • Technology • saying how you use technology using a wide variety of regular and irregular verbs • use of a variety of infinitive structures to express advantages and disadvantages • Reading and music • opportunities to express preferences and reinforce all quality language structures studied to date. TV and Film. 	 A usual holiday • use of key verbs to describe a usual holiday • booking a hotel • A past holiday • formation of the perfect tense with avoir and être • use of the imperfect +/ pluperfect tense to describe a holiday disaste A dream holiday • use of a variety of future tense expressions to discuss a future/ dream holiday (conditional, near & simple future tenses) This topic allows students to expand on knowledge gained at KS3 and reinforces the use of three tenses and quality language structures essential for GCSE success.

traditions • how we celebrate big events	 discussing genres and preferences • use of 	Opportunities for narration of events allow for
(birthdays/ Christmas etc).	the comparative • reinforcement of adjectival	more complex descriptions.
- This topic revisits and expands on basic	agreement • use of direct object pronouns •	- Students will be given provision for Spiritual
vocabulary and grammatical structures seen	-Reinforcement of the use of 3 tenses with all	development through the awareness of other
in Y7. Opportunities to explore complex	key verbs.	people's faiths and values in the Francophone
grammatical structures are introduced	- This topic consolidates and expands on much	world, reflecting on and sharing experiences
(comparative/ superlative) and expressions	of the KS3 curriculum, allowing students	with others and using imagination and
of future wishes using a variety of structures	opportunities to reinforce the use of quality	creativity in their learning.
are reinforced. The new topic of marriage	language structures, three tenses and expand	- Students will be given the opportunity for
allows students to adapt previously seen	into giving more complex reasons for	Moral development through understanding
vocabulary and structures in a new	preferences.	and abiding by the rules and expectations of
		the classroom and examining cultural
		traditions in the Francophone world,
		discussing them in a safe and respectful
		environment.
		-Students will be given the opportunity for
		social development through the vast array of
		opportunities for pair work and teamwork in
		the classroom which foster an ethos of
		cooperation, support, and respect with their
		peers, all different religious, ethnic, and socio-
		economic backgrounds.
		 Students will be given the opportunity for
		Cultural development by exploring different
		beliefs, traditions and festivals in the
		Francophone world and comparing them with
		those in Britain. Their greater understanding
		of diverse cultures in the world will enable
		them to develop respect and to celebrate
		diversity. Students will gain an understanding

			of the notion of 'politesse' and its importance in Francophone culture.
Computer Science	Systems architecture Aim The aim of this unit is to enable students to demonstrate a theoretical and practical understanding of computing systems. - Understand Systems architecture- - Analyse the purpose of the CPU - Analyse Von Neumann architecture/ MAR (Memory Address Register)/ MDR (Memory Data Register)/ Program Counter/ Accumulator - Analyse ALU (Arithmetic Logic Unit) CU (Control Unit) Cache - Analyse CPU as fetch and execute instructions stored in memory - Analyse CPUs affect their performance: /clock speed /cache size / number of cores - Analyse purpose of embedded systems3 Memory Aim The aim of this unit is to enable students to demonstrate a theoretical understanding of Memory	 Principles of data Storage Aim The aim of this unit is to enable students to demonstrate a theoretical understanding of Data Storage Differentiate between common types of storage: optical/magnetic/solid state. Differentiate between common types of storage: optical/magnetic/solid state- e advantages and disadvantages of these capacity speed portability durability reliability cost. Wired and wireless Networks Aim The aim of this unit is to enable students to demonstrate a theoretical understanding of wired/wireless networks Investigate LAN (Local Area Network) WAN (Wide Area Network) Investigate client-server and a peer-to-peer network Investigate DNS (Domain Name Server) hosting the cloud	Concepts of Network topologies, protocols and layers Aim The aim of this unit is to enable students to demonstrate a theoretical understanding of Network topologies, protocols and layers - Describe star and mesh network topologies - Describe protocols including TCP/IP (Transmission Control Protocol/Internet Protocol) HTTP (Hyper Text Transfer Protocol) HTTPS (Hyper Text Transfer Protocol) HTTPS (Hyper Text Transfer Protocol) Secure) FTP (File Transfer Protocol) POP (Post Office Protocol) IMAP (Internet Message Access Protocol) SMTP (Simple Mail Transfer Protocol - Describe packet switching. - Describe encryption Principles of System security Aim The aim of this unit is to enable students to demonstrate a theoretical understanding of System security

	 Explain the purpose of ROM in a computer system Explain the purpose of RAM in a computer system Explain the difference between RAM and ROM Explain virtual memory Explain flash memory 	 Investigate DNS (Domain Name Server) hosting the cloud Investigate virtual networks. 	 Describe forms of attack malware phishing brute force attacks denial of service attacks poor network policy Describe preventing vulnerabilities network policies anti-malware software firewalls user access levels passwords
P.E	 -To be able to rally co-operatively with a partner. -To be able to play in different positions (attack, defence, goalkeeper) -To be able to perform a technically basic standard. -To be able to be judging the game. -To be able to perform teamwork (communication) -To be able to basic the rules/regulations and safety procedures. -To be able to understand the importance of physical test 	 -Studying rules of safety in the lessons of Football. -Studying and developing dribbling, inside -the foot pass, long pass, foot trap, passing, outside the foot pass, -ball control; tackling -goalkeeping, kicking goals, kick-off -punting, volleying -team play and strategy -defensive manoeuvres, -football rules, game -Improving stamina, agility, strength. 	 Studying rules of safety in the lessons of Volleyball. Studying and developing underhand serve, simple returns, overhand serve, Studying and developing forearm passing (set shot) Studying and developing dig shot Setting Blocking Spike/attacking Basic games rules, game strategy, rotation Improving stamina, agility, strength.
EAL	Listening - Can understand the main points of clear standard speech on familiar matters regularly encountered in work, school, leisure, etc.	Listening - Can understand extended speech and lectures and follow even complex lines of argument provided the topic is reasonably familiar.	Listening - Understand complex information from different types of recordings Give a relevant, cogent response in appropriate language

- Can understand the main point of many	- Can understand most TV news and	
radio or TV programmes on learnt topics	programmes in familiar topics.	Reading
when the delivery is relatively slow and clear.		
	Reading	- Read and summarize information /ideas
Reading		from different sources.
	- Read and understand texts that consist	- Detect point of view, implicit meaning of the
- Can read and understand text that consists	mainly of high frequency language or learnt	text.
mainly of high frequency everyday or learnt	vocabulary.	-Utilize information contained in texts.
topics language.	- Read and understand texts in detail.	
- Obtain specific information through	- Utilise information contained in texts;	Writing
detailed reading	identify suitable responses to texts.	
- Be able to locate the information in the		- Present information/ideas concisely and
text.	Writing	logically.
		- Use a range of sentence structures, including
Writing	- Write clearly and coherently, including an	complex sentences.
	appropriate level of detail.	- Give the reasons in support of or against a
- Can write simple connected texts on	-Present information in a logical sequence.	particular point of view.
familiar topics or personal interests.	- Ensure written work includes generally	
- Use basic grammar including appropriate	accurate punctuation and spelling and that	
verb tenses and subject -verb agreement	meaning is clear.	Speaking Topics
- Be able to check work for accuracy and		
spelling	Speaking Topics	-Tourism and Travel
		-The Natural world
Speaking Topics	-Education	
	- Further Studies and Future Plans	Grammar
-Body and Health		
-Cooking and Healthy Eating	Grammar	-Modal Verbs
Grammar:		-Reported Speech

-Present Simple vs Present Continuous	-Countable/uncountable Nouns	-Conditionals
(Review)	-Plural of Nouns	
-Future Forms (Present Continuous, Future	-Definite and Indefinite Articles	
Simple, be going to)	-Quantifiers: some/any/no/much/many	
-Time Clauses	-Demonstratives	
-Past Simple/Past Continuous/Past Perfect	-Adjectives and Adverbs: position in the	
	sentence; comparison.	