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			What is digital features of presentation software shifts	work Word processing processing software	Review of skills. Project collaboration	Algorithms.	Sequence, selection, iteration	Flowcharts	Solving problems logically	Review of skills o	Project Sc collaboration in	cratch: The Racing of derface game		e game	Review	of skills Project collaboration	Getting to know Excel	Calculations using formula	Collecting data	Managing data	interrogating data Brois	Project er of skills - collaboratio	Provingenero	at of computers	Artificial inteligence	Use of artificial inteligence and computers	Ethics in computing the	iew learning	Collaboration	SMCC Experienc	SMCC Experience
Conyuber Science and ICT Key Stopp 3	Year	7	The continues of the co				Topic on Indiana  "Annotes to State and Englishme and directly instances of insquence, selections and Beration  "Annotes to State and Englishme, and identify instances of insquence, selections and Beration  region will be allow an experience in an actually they are unded  "Angular and the angular than actually they are unded  "Angular and the angular than actually they are unded  "Angular and the actual than actually the actual than a production and produces containing  and a financiars to the understance to produce the actual than actual t					Pugin an industrial  New York State State of Control Standard  New York State State of Control Standard  New York State State State of Control State State  New York State State State Of Control State Stat					Pupils will know • how to naviga • how to use to Pupils will be at • add and form • construct form • analyse data i	Genting to Charladorous (Control of the Control of					how the work     how we use to     the benefits a     Pupit will be ab     explain how to	People will reliable.  A the first would of a first findingly but changed over the years.  I the learning and distributing the changed over the years.  I the learning and distribution of will reliable produced by the change of							
			Algorithms and programming print, read a programming project		able Review of skills Collab	ration ROM and R	RAM Secondary don	Characteris of storage devices		Review of skills o	Project collaboration A	pp for that Suppy T	p App School Lab Studios	User input	App development	Review of sk and project collaboration	What is data science?	Global data	frend analysis and statistics	Using data to anower countries	Data cleaning Data	project	Types and uses of databases	Creating tables and relationships	Validating and importing data	Queries	Reports Rev	iow of skills	roject ollaboration	SMCC Experienc	SMCC Experience
	Year 8 8		Pupils will know:  A special source of the special spe				Popis will show:  *Per year of Stoage is a computer system  Play will be a series of stoage in a computer system  Play will be also go excelled for given purpose  Pupils will be also go.  **explain efficiently give of stoage in a coppore system, and what they are used for  **seption in Editorial on the receivement in earth or goodspie also gainger devices.					Pupils will being:  Pupils will being:  **Des to in springer the coding environment puriport  **Comment or springer the coding environment the coding environment puriport  **Comment or springer the coding environment the coding environment puriport  **Comment or springer the coding enviro					Pupik will know • how to use do • how data is us Pupik will be all • visualise data • work through	Papils will know:  * Now to use data to investigate problems.  *Papils will be about the control of problems.  *Papils will be about the control of problems.  *Visialise data to directly partners and rounds.  **Visialise data to directly partners and rounds.  *Visialise data to directly partners and rounds.  *Visialise data to directly partners and rounds.					Pupils will know • how data is st • how validation • how to find an Pupils will be ab • set up a relation	Pugits well know.  **New data is accordinal acticulated **New to feel and operated information forms a distributed **Pugits well list acticulated **Pugits well list acticulated **New to ga a verificional contactulate **New to ga a verificional contactulated **New to ga a verificional contactulated **New to ga a verificional contactulated **New to gas a verificional contactulated **New							
	Key		Binary key Binary Denary Denary values convenions convenions	al Binary to Hexadecimal Binary Adi conversions	dition Review of skills Projectional	ration		image Storing dig	al Characteristics	Alternative ways to represent & digital images a	Review of skills de and project so	rogram efinition, olution and		H-21.01 119 00H	Review	of skills Project collaboration	You and your data	Social engineering	Script kiddles	Nise of the bots p	There's no place like und 127.0.0.1	rattack Serview and collaboratio	Sourcing content		Sechnology and the environment	Legislation	Moral dilemmas			SMCC Experienc	SMCC Se Superience
	Year	9	Pupils will have:  * Bit have been self-record by computers  * Bit have been self-record by computers  * Bit have been self-record by computers  * Committee been self-record by computer systems  * Committee self-record by comp				Storing digital trasper "emipulation lound" of digital sound bed usuals lookshort storing the hospital digital reduction of the storing digital sound bed to complete registers to have been given that are command and command as companier registers public will be ability and command and command as companier registers engigles have been great part discussed, effected and stand on a companier registers engigles have been given and security.					Section Control Programming project  Pending  Phylip will Source  Phylip will Source  Phylip will Source  - In the Control Program control  - In the Control  - In the Control Program control  - In the Control  - In t				Pupik will know • the technique • how systems: Pupik will be at • explain the us • explain how d	Expile will stocke  - the stocking-wave und by optentionizal to make data  - how speciment can be disrupted and illiterated  Papilly will be able to:  - registro the value of data  - registro the value of can be keep rule from attacks.				Pupils will know • How compute • The impact of Pupils will be ab • Assess the por	Physics will know.  How compare systems developed over the years.  Apply will be able to:  Apply will be able to be able to the part of the years.  Assets the positive and negative impacts of sectnology on different aspects of life.									
			Binary key Binary Denary Headeclamal Binary to Binary Addition Review of skills Project colleges convenions on the College of				Getting to Calculations Collecting data Managing data States  Getting to Calculations Collecting data Managing data States  Managing data States					Venegra and configuration of strong care treatments paid in a jut suppression justified.  Complete Straight Camples (Space Configuration of Space Configuration					Tou and your Social script liddles Rise of the bots (blue like like and place like lighter ligh				Sourcing content Pupils will know	Sourcing Sectional Section of the Se						SMCC Experienc	succ Experience		
Ш		¥	Implies the Towns  - Vision data is, important by computers  - Difference Internet Efficient matter systems  - Convert Enternet Direction Systems and Distray matter systems  - Convert Enternet Distract Single part Enternet Distract programs  - Convert Enternet Distract Single part Enternet Distract programs  - Convert Enternet Distract Single part Enternet Distract programs  - Convert Enternet Distract Single part Enternet Distract programs  - Convert Enternet Distract Single part Enternet Distract programs  - Convert Enternet Distract Single Part Single Single Part Single Pa			how to it     how to u     Pupils will I     add and I     construct     analyse d	Gerting 13 Circulations and Circulations					Puglic set States:  - She preferencial cross 40 astrontors using the industry standard software  - has this important crossine field is used to make the media products that we concurse  - puglic will be able to  - crosse a 102 astrontors couplet wising modelling, tenuering					College - Imagenesing 227.00.5 continues of the College - Imagenesing College - Imagenes					The impact of Pupils will be ab     Acsecs the por	Sectioning and Sectioning and Sectioning and Sectioning and Sectioning Association and Section and Sectioning Association and Section a								
Greyder Steine Pearand COS New 9 New 9			Binary key Binary Denary Denary Values conventions conventions		Megative binary Silvary and binary and binary guerfic	Addition Logical and arithmetic binary shift	d Two's complement to signed integers	Represent data in computers of sounds for sounds computers of sounds counds are program (instructions days), can interval of sounds counds (ample or days), can interval of sounds (ample or days), can be sound (ample or days).	Meprecenting data in computers - graphics (pixels, pix exclusion, pix exclusion)	Euta Li representation	Lossy and lossless Ni compression co methods	eumann stored program oncept	Rate of main or	emony	Secondary Embed starage system	led Hardware	Purpose of the OS	Litility software		Robust software	Purposes of Stans fow-level level mad	to Software & ate high- programmin code to languages ine-code assessment	Environmental impacts of digital devices	Ethical and legal loues surrounding personal data	Othical and legal issues currounding the use of AI, machine learning and robotics	Protecting intellectual property	Cyber security - three methods of protection	ats and	thical and YRS	DGCSECS SMCC low Experience	SMCC ce Experience
		2				Pupils will i • methods	know: s to calculate negative	instructions depth, can depth, can depth, can deternal)	, bit colour depth)			iplis will know: the von Neuman comp	iter process				Pupik will know • the purpose a	nd functionality of t	the operating sys			ne code   posecurient		e: digital devices on	learning and robotics the environment						
		Yeach	Popula del Tomos  **Tende del Aci appromisso del promputer  \$\frac{1}{2} - 4.0				Sequence of the sequence of th					Nagin and interest compare process  * the size of inclination compare process  * the size of inclination compare  * the proposed of controlling compare  * why emerically operate are used  * registrate the can be explored and fair bases  * registrate use can be end of endered process.					the purpose a     the need for o     the dharacter     how an interp     Pupils will be at     explain the re	Figure 1 to the purpose and functionality of the operating uption  - the purpose and functionality of the operating uption  - the purpose and functionality of this purpose  - the confidence of the purpose of the well-and purpose  - the characteristics and purpose of the well-and thingly-level purposes and uption purpose  - the characteristics and purpose of the well-and thingly-level purposes  - the purpose of the purpose of the purpose of the purposes  - the purpose of the purpose of the purpose  - the purpose of the purpose of the purpose  - the purpose of the purpose of the purpose  - the purpose of the purpose of the purpose  - the purpose					the othical and property the threats po Pupils will be ab assess the ing evaluate the e	New And Manufacture of the environment of the Manufacture of the environment of the entire of the en					use and data		
	To add to Year	10										Pagana now ascalle staned on different devices					<ul> <li>explain the need for file regar, factoring, data compression, data delargementation and acts relaxans software         <ul> <li>explain the need for part acts facility and continues relevant</li> <li>explain the need to part acts facility and continues</li> <li>explain the need to the translated between law and high level code, and the different methods of doing to</li> </ul> </li> </ul>				portation.  **evaluate the rehical and legal issues surrounding A1, mathine learning and robotics including accountrability, coffer, alignoffment than soft legal islability exceptions and soft and legal islability exercises.  **evaluate the declarated all legal islabilities currounding intelectual property protection including copyright, patents, evaluates the declarated all legal islabilities.  *evaluated different circuits to degital express such as Trojaces and levy legates and extends of protection including anti-makeurs, econograms or copyrights, such part of except personal such participates.					ing caleny, ents, cluding anti-					
			Becefits of decomposition in algorithms also also also also also also also als	ms likenefits of abstraction	Use abstraction in algorithms people	rai sects of Senuctural of programs	components of	Programming with variables constants 1	and Programming to respond to user	a accept and a singuit 2 e	Systax, logic and nuttime errors																			SMCC Experience	SMCC Experience
		Teacher 2	Pupilt will know:  What decomposition and abstraction is. Why program structure is important  When to use a variable and when to use a co  There types of errors; syntax, logic and runti	nstants when programming ne.																											
			Pupils will be able to:  - Use an algorithm to plan a program  - Write a working python program in the come  - Write a program using satisfales and constan  - Use error reporting to find entors and correct	ct structure s that accepts an input and has a them	en output							spit will know: spit will be able to:					Pupik will know Pupik will be at						Pupils will know Pupils will be ab	ble to:							
Orgital Information Technology 8TEC Tech Award Ne y Stage 4	-		Create buttons for user stadium Content content	Add hyperlinix Greate inc	age swimm and tropro- feedback	Explain the project requirement and purpos the user	e Explain the audience ets requirements se of and user accessibility	Explain the project Explain the constraints and the potential sick that could is the most appropriate	By By It Explain your contingency	Create a task C Sistand a PERT of	Create a GANITY Exchant and mood an	plain input hardward output software	e and Create a test	Create storyboards for each screen in your user interface	Annotate each of your storyboards interfa	Substate project planning perchologes	Create a spreadsheet model for a given scenario	Demonstrate how to use formulae to perform calculations	implement formatting to make the upmadaheet madaheet madaheet	Use data validation when entering data in order to reduce user error	implement comic conditional cells formatting mon techniques mon	st cells  If e.g. Spreadsheer skills senting assessment y should	Select the most suitable chart to visualise the selected data	Implement and text a macro to carry out a repetitive task	Implement a LOOKUP function to retrieve data	Implement as If function to give the user feedback	Demonstrate that sk can be applied to a d problems, using trans	ills developed in lifferent szenzari ferable skills	s the lessons o and solve Cou-	SMCC Experienc Instruction	SMCC Experience
	Se Year	10	Pupils will bear.  Now to design a sear intended for the apartic constant.  Now to design a sear intended and officered user enemals.  Now to design a sear intended and officered user enemals.  Now to add purpose the forest to the sear intended and the search of the sear intended.  Cased important before enemal pupils of the sear intended.  Cased important began intended to make intended.			Pupils will i • How to p • How to p Pupils will i • Create a	And the second s					and and applies of factories (see a possible of the control of the					Pupils will know • how to forma • how to use to • how to valida Pupils will be all • select propose	Popils will know:  * Now to Chromat a spreadulent  * Now to Chromat a spreadulent  * Now to Lock domata  * Now					Pupils will know • how to select • how to autom • how to retrive Pupils will be ab	Pagin will store  Pagin will see the seed of the seed							
Dig kal Information Richtedogy Ofiginal BT EC Tech Award Key Stage 4			Create a hyporticial between pages of the use interest interest in the animation and transition to make interest approaches to the particular animation of the partic	tive user interface  Use data Implemen	Format cells  g correctly, e.g.  al cells  spensenting (kills  money should  se currency,	1				at skills developed in	in the lessons	Evaluate user interface	and planning techniques				present comp     ensure comec	riate formula and fuller data in the most it data is entered the	t vicually appealin rough effective us	ng way se of validation		Assecthow	implement the sapply a comple	e IF and LOOKUP F sehenowe set of sp	functions preadcheet skills t	o an unsceen stars	rio				
	S Year	11	spreadsheet model for a perform spinishing calculations of filener specific information	validation when conditions of the conditions of	al representing skills is money should assess to be currency, etc.	heet suitable ch to visualise selected do		1 1	to can be applied to problems using	to a different scenarii tranderable skills		elect and use methods to opture and manipulate of	methods and 6 data in a dashb	otures to show card	Use formula and function data dashboard	s to create an effective	data	s and trands in	Draw conclusions and trends in dat	on patterns in	Make reccomendation partierns and trends in	data gresentation data data on the dashboard is	of								
	Key		Now to Screen's operand there     Now to see			constact     implement	Puglis and States  - Name Se sinker, and format graphs and charm  - Name Se sinker, and contrast graphs and charm  - Name Se sinker, and contrast graphs and charm  - Name Se southern and contrast graphs and charm  - convent charmons, remarkingful graph and charm  - convent charmons, remarkingful graph and charm  - convent charmons, remarkingful graph and charm  - convent charmons, remarkingful graphs and charm  - convent charmons, remarkingful graphs and charm  - convent charmons and contrast charmons  - convent charmons and charmons are charged and charmons and charmons are charged and charmons and charmons are charged and charmons are charmons are charged and charmons are charged and charmons are charmons and charmons are charged and charmons are charmons are charged and charmons ar				-	Pupils will brow:  - New to crosses a distributed using data manipulation stock Pupils will be able to:  - Select and use referent methods to effectively and accurately manipulater data and produce a fully efficient and compre-					how to draw in Pupils will be at pre      assecutive efficecommendation	Pupils will storce:  New to draw conductions and molecular presentation methods.  Pupils will be able to:  - security of efficiency and extended to presentation of data and how it affects the conclusions draws and the recommendations made, using perificie examples.													
rdogy information Creative Technology Efficience 2 Award Efficiency 2 Award Efficiency 2 Award			ensure correct data is entered through effect Begin to create Add pages and left the ePortfolio ravigation ePortfolio	ive use of validation		nd feedback of designs.	on Justification on final decisions	preadcheet ckills to an unscee Produce a structure of simeline & indicating storyline navigation	hart Produce an asset table	Explain the scenario, Granders, drawler, audience and in seeds	Evaluate and discuss improvements	niline services	Online documents	Online commun	Cloud I ubiquit compu	s The internet	The WWW	HIME I	URLs	Small C	Clier Data exchange proc	-side and transmission modes	Soom resit prep	saration (if necessa	anyl						
		Tracher 1	Pupils will know:  • how to set up a webpage and add multimed  • how to test and refine webpages to resume the Pupils will be able to:  • create an electricitie using web authoring sof  • Treate an electricitie using web authoring sof  • Treat webpage on the different browners  • Refine and improve portfulio using feedback:	a content sey meet the needs of a given au-	dece	Pupils will in How to p Pupils will in Oneign po Plan a pn	know: plan a project based or be able to: ages for a website roject using a basic pro e a website including o	n requirements from a specific	cenario			upits will know: how online services are the impact of online do how online communics why computing devices	used in personal and bu cuments to business sion is used are now ubiquibous since services and docum colline communication to	siness situations	I		Pupils will know • how data is or • how email is or Pupils will be at • explain how w	c ored and transered ised sie to: vebpages are stored ata is stored and to	over the internet												
	ğ Year : g Level	12	Text webpage on two different browsers     Refine and improve portfolio using feedback  Table creation     Crease and population relationships validation		Simple and tompies Report queries	* Structure Text plan a texting	_	user can	Table designs	Audience and P	Potential Re limitations do	upils will be able to: assess the impacts of o evaluate the impacts of eview the finihsed relationabase	nline services and docum online communication on onal	ents on business a sethods	and personal situations techniques used in a datab		explain how d     Threats to data	bits is stored and to	inunited		m mustings and soon	terbriosa.	Soon out own	saration (if necessa	and .						
		Teacher 2	and population invlationships walldation Pupils will know:  • how data can be organised into related table • how to set up salidation to ensure accurate • how to set and query data to find esoults th. Pupils will be able to: • construct a distribution		queries			per of test data	and arragin	purpose li									words			ar. mager	a de la companya de l	an zach ji mossa							
			<ul> <li>find information and present in a report form</li> </ul>	at	Festion	<ul> <li>construct</li> </ul>	know: ywate a test plan prtance of different ty; at up design documen be able to: tabase to enoure it is t I design documentation	on including an ERD and table o			-		neoues of database syste techniques are used to a disease sook and technique used 2 - Part A	base that they hav		_	+	c unity of duta can be sta storage sie to: ent threats to duta a engths and weaknes					Sar on horizon			Carrier color to		lare on skille ker	culate ad Sic	unor .	
	S Year	12	systems database so	rhods and creating a creating a structure to an effective and useful databa				Unit 2 - Part A Assessment  d develop an effective design o	Unit 2 - Part B Guided Mock	Å	- h	nit 2 - Part A uided Mock uplit will know: how to examine a scen	Assessment	tive design solutio	Unit 2 - Part B Guided Mock	Unit 2 - Part Assessment				-	Creating content and Social deviceoping a polic community	media Refining pla	social media profile  Pupils will know  • how to set up	Create and public	ish content		Analyse data Bell pathered suc	lect on skills, kr naviours needec ecofully in socia	I to work pap i media che	I BTSC enwork Swperienc Sk	SAECC Experience
	Key		Puglis del Tissue:  "An la se efficient de desgris follows through to an effective and undef distribute  "Ann to a manifer a consolice and develops as efficient design solution.  "Ann to a manifer a solution and develops as efficient design solution.  "Ann to a source the development of the anticolous and anticolous and anticolous and anticolous and anticolous anticolous and anticolous anticol			how to to     how to a     Pupils will I     design, or	People will show:					Applies will be some presented and develop an effective design an entire of the contraction of the contracti					Explore the in	Pupils will broadfrow a broad whom an extra service   The broad br				how to create     how online co     how data can Pupils will be ab     implement the	Pagin will secure  **Apon to Contract social media accionate and purifies  **Anon to Contract spublich Contract  **Anon to Contract spublich  **Anon to Contract spubli								
			Digital devices, their functions and use Peripheral devices and computer s options			nent Connectivit		Networks	looses relating t data	ľ	Assessment O	nline systems		Online commun	ities	Assessment	Digital devices i revision and ga- questions	n IT systems st paper	networks revision papers		operating coline revisions	on and Assessment	Unit 1 - Revision	n and past papers							
4 6		Teacher1	Region will show:  - the cancepts and organizations of the see of, and relationships among, the devices that from if systems.  If systems are the cancel or				Todals and storous  A the concepts, process and implications of transferring data within and between If systems.  Pupils with a sale to:  - a water that method used and impacts of methods of connection  - a water that method used and impacts of methods of connection  - a water to a method used and impacts of methods of connection  - a water to a method used and impacts out for includes and or generations of connecting devices to fixes  - a method.  - a met					Figure 1 to Stocke.  **Explorations for the "individuals and organizations of using ordine III" systems.  **Explorations for the "individuals and organizations of the use of unities III" systems.  **Exploration for the users, using an and implications of the use of unities III" systems to store data and  **application for future of unities constructions and the implications of their widerpread use for organizations and includuals.					Pupik will know tagics covered style of exam command wo Pupik will be at breakdown so	Popula well denote:  **epide of many in each section of the earn  **epide of many personne  **emined words used in questione  **emined words used to the emined to the emined words used used used used used used used us													
Information Technology 8T EC Externded Cartificate New Stage 5	s add sign Year	13	<ul> <li>explain futures and use of projection directes and made in it injustems to meet the needs of individuals and organization;</li> <li>explain concepts and implications of the use of an initiation injust the meet, hashaps and official explain concepts and implication and their injuries and their injust on individuals of agricultures.</li> <li>explain how the first and a first and their injuries and their injuries of a larger of a finite property of their injuries.</li> <li>explain how the first and if it is given can affect its performance and/or the performance of a larger if a splain.</li> </ul>				<ul> <li>explain how the features and processes of data transmission affect the use and performance of if systems</li> </ul>				ens an	and individuals					plan and strue	plan and structure answers to extended questions													
		2	Moral and ethical factors in ICT	Role of legislation and guidi users and data	lunes in protecting Access	nent Online Sen		Impact on organisations		pulating data A	Assessment Th	hreats to data, informat		Protecting data		Assessment	Issues revision : questions		impact of iff syste past pagers	oms revision and a	Protecting data and in revision and past page questions	omation Assessment	Unit 5 - Revision	n and gast papers							
- [		Texhe	Pupils will know:  • how the implications, for individuals, organisusing information technology  • how the legal issues relating to the use of if and wider society  Pupils will be able 10:	ations and wider society, of mora systems and the implications for i	il and ethical factors of individuals, organisations	Pupils will in how the in- the impa the uses,	know: features of online ser sct that IT systems has processes and implic	vices are used to meet the nee we on individuals ations for individuals and organ oplications of IT systems and the	is of individuals and o	rganisations and using data	5	spils will know: the issues and implicati spils will be able to: explain implications of	ons of storing and transs	nitting information	in digital form. wity and integrity of data, wes used to protect the da	eld in,	Pupits will know • topics covered • ctyle of exam • command wo	of in each section of questions rds used in question sie to:	the exam			-									
						and inform	nation in digital form										Pupit will be at														