The Beacon Centre

Computing

A Media Focused Programme of LEarning for ICT / Computing, covering all aspects of the National Curriculum for England as outlined by the DfE. The programme encourages students to understand the changing nature of ICT and technology usage through engaging with it in creative ways. The programme has been designed to allow young people to complete a variety of qualifications at Key Stage 4 including the PEarson CiDA and DiDA, GCSE Computer Science, Functional Skills ICT and the ASDAN Vocational Short Course.

Long Term overview of the topics that each class will study during each half term.					
	Key Stage 3	Year 10	Year 11		
Autumn 1	Using and managing information	Creating Digital Graphics	Creating Digital Video		
Autumn 2	Essential Digital Skills Creating and Editing				
Spring 1	Representati on in Media	Computer Hardware	The Online World		
Spring 2	Communicati on	and Software			
Summer 1	Developing ideas and problem solving	Digital Portfolio	Review and Revision		
Summer 2	Project				

Potential qualifications that can be achieved in this subject area:

GCSE, BTEC, Cambridge National, ASDAN, Functional Skills, Entry Level Certificate

Class: Key Stage 3					
Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
LO 1 Be able to identify and select information and resources to meet personal and organizationa I needs. LO 2 Be able to evaluate researched information, adhering to procedures and copyright. LO 3 Be able to store information in line with an organisation's agreed procedures. Identify appropriate search facilities to find relevant information. Identify the different types of search engines.	LO1: Creating and editing documents. LO2: Editing and enhancing digital media. LO3: Processing numerical data. Apply layout and format features for documents. Identify the importance of adapting documents for a specific audience or purpose. Use images in documents. Create a newsletter style document. Select and modify images to suit a particular	LO 1 Be able to manage and promote their own digital reputation and online identity. LO 2 Be able to use social media and the internet to search opportunities and prepare applications for employment. LO 3 Be able to use technology to facilitate personal and professional learning and career progression. Identify the impact social media can have on future employment prospects of self and others.	LO1: Communicati ng and Sharing Appropriately use different modes of online communicati on. BSL Compare two types of electronic communicati on that you use.	LO1: Developing ideas and problem solving. Working to a briefe. Working on a budget. Explain how you ensure you stay safe online. Explain the importance of sharing ideas.	LO1: create a multimedia presentation using text, images and sound. In creating their pages, pupils are expected to be sensitive to the needs of their audience.

Class: Year 10					
Autumn 1 Autu	mn 2 S	pring 1	Spring 2	Summer 1	Summer 2
Creating Digital Graphic Pre-production storyboarding - process. Describe term 'pre-production' planning available pre-production planning materials. Describe the two types of digital graphics: raster vector Name associate formats for type digital graphics. Utilise open sour software to creat both types of digital graphics. Utilise open sour software to creat both types of digital graphics. Identify the resorrequired for creat digital graphics. Recognise the legislation regard use of digital graphics.	skills - design e the duction e tools e for luction luction and and ed file s of arce ate gital burces ating	and mo technol Computoutput of the storage media Storage media	ter systems bile ogies Identify the aspects of a computer system and be able to explain their role in the functioning of the computer Examine the ways in which computers can link together to form a network ter input and	Digital Portfolio Basic project lif Stages of the p lifecycle: • design (e.g. s structure chart, software) • create/develo product e.g. ite development an from test users • review (e.g. fo others). Digital portfolio Web pages, inc • home page w introduction and sections • section pages purpose of sect context pages and link to item Digital portfolio Interface to incl • page formatti scheme, fonts • assets require pages – (e.g. in video) • navigation – i links (internal, t buttons), consis Digital portfolio Consider:	ecycle roject storyboards, assets, op and test a rative cycle of and feedback eedback from structure cluding: with d links to sto introduce sto introduce s of content. user interface ude: ang — colour ed for web mages, sound, mavigation bar, ext, graphical, stency.

their uses / limitations Communications Understand and identify / create a range of digital communications ns (Letter / email) Working with information to solve problem Use of Block Code Real work computing using LEGO Mindstorms to overcome the problem.	 selection – variety of extracts, snapshot of experiences and projects file formats compression accessibility.
---	--

Class: Year 11					
Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
storybol scripting Name the camera in video Recognifile form propertivideo Utilise the required video con the control of the	duction skills - arding - g etc. Describe the term 'pre-production ' Compare planning tools available for pre-production Create pre-production planning materials he different angles used o production hise different hats and les of digital he software d for digital reation g a set / set ng a video	The Online Wo Online services Understand hor online services Examples of or include: • communication instant messag newsgroups, so networking, online conferenchat room) • real-time info timetables, new traffic reports, f updates, weath • commerce (in banking, online websites, retail publishing) • government (in returns, e-votin for services/gra revenue collect • education (or learning/training • virtual learning environments (in business (vid conferencing, or working, busines entertainmen games, radio pi • download ser film, upgrades,	w and why can be used. filine services, on (email, ing, ocial ficing, blogs, rmation (train ws services, light status fier) fiternet fie auction sales, fonline tax g, applications fints, fion) filine g) og VLEs) eo collaborative ess networks) t (multi-user layers) rvices (music,	Revision and FS Exams	

Understand:

- the features of online advertising designed to capture attention and retain interest
- the affiliate model of pay-per-click direction of traffic to websites
- the services provided for online data storage including data backup, file access and file sharing.

Online documents
Understand online document
systems, including:

- the need to compress (.zip) files for download/upload
- how files are compressed and expanded
- the advantages of using online software to create documents, including collaborative working, sharing documents and automatic backup
- comparing the use of online software with standalone software for the creation of documents
- the need for version control, levels of access and file permissions,