

Year 7 Computing Curriculum 2016-2017 (Core ICT)

| Autumn Term | Topic | Further Details About The Topic |
|---|---|--|
| Baseline Assessment 1 | | |
| September – October 2016 | About me | Students to create a presentation about themselves. They will include appropriate images and information. They will look at using the context of hyperlinks, custom animation, slide transitions, formatting images etc. |
| November – December 2016 | Emails etiquette What is the Internet? | Students will be given their school email address. They will learn how to use login and use email etiquette; send / receive / reply / forward / BCC / CC / attachments and address book. They will also understand what the Internet is and its dangers. |
| Spring Term | | |
| January – February 2017 | E- Safety Cyber bullying Online I.D | Knowing how to stay safe online, how to change privacy settings, who you should and shouldn't talk to. Dangers of social media, what to do if you are being bullied online, what information can you share. How to protect yourself, how to deal with viruses and what antivirus software should you use? |
| Assessment 2 – E-Safety | | |
| February – April 2017 | Scratch - usage and skills. Creating instructions in Scratch. Making a game in Scratch. | Teaching the main 5 data types and the concepts around what scratch does and why? Being able to set up a project in Scratch. Being able to use a range of controls and variables to make a working program. To include annotated screen shot evidence to explain how a program functions. |
| | BAFTA game development. | Students will be developing skill sets to include; narrative, art and design, mechanics and target audience. They will have the opportunity to choose game making or game concept. This will involve making a game and including a write up to enter the BAFTA competition (Linked to Lowestoft 6 th form.) |
| Summer Term | | |
| May – June 2017 | Computer Hardware | What is a computer? Knowing what the C.P.U. does and how it affects your computers performance. Knowing the difference between R.A.M. and R.O.M. |
| Assessment 3 – Computer Hardware | | |
| June – July 2017 | BBC Micro Bit | Students will learn how to use these. They will learn how to program these whilst creating a range of challenging projects. This will be a further development upon Scratch. |

Year 8 Computing Curriculum 2016-2017 (Core ICT)

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|---|--|--|
| September – October 2016 | HTML and Hyperlinks | <p>Students have an introduction to HTML which consists of the historical background. They will create a visualisation of their web pages, mind map, mood board, and house style.</p> <p>They will then go on to apply the skills taught and create a series of web pages using Notepad ++. They will create a website around the topic of their choice e.g. gaming, sport etc. They will also test, evaluate and peer assess.</p> |
| November – December 2016 | | |
| Assessment 1 – HTML | | |
| Spring Term | | |
| January – February 2017 | Advanced Scratch – Computational Thinking. | <p>Students will look at solving logical problems through the complexity and script of programs. They will look at some code and attempt to explain why the code does what it does. They will then go on to test the code and see if they are correct. They will create a mini program which their peer needs to guess what the code does and then peer scaffolding / assessment will take place.</p> |
| Assessment 2 – Computational Thinking – Assessing what code does | | |
| February – April 2017 | Animation | <p>Students will research, create a storyboard and using Fireworks will create an animation based on a given scenario to advertise a product e.g. Apple, Samsung, Nike, Superdry etc.</p> |
| Summer Term | | |
| May – June 2017 | The Digital World | <p>Students will learn about Internet Safety / reliability and validity. They will how to safe search and stay safe online. They will learn about copyright and cyber abuse.</p> |
| Assessment 3 – Internet safety | | |
| June – July 2017 | E-Safety | <p>Students will learn about; Cyberbullying, Viruses, Social Media, Sexting and Grooming.</p> |

Year 9 Computing Curriculum 2016-2017 (Core ICT)

| Autumn Term | Topic | Further Details About The Topic |
|---|--|--|
| September – December 2016 | An introduction to Python programming (Cross ref C/S) | Students will transfer the skills which they have learnt around the main data types / Scratch and will learn how to code using Python. This will be using written skills to annotate their program using the appropriate language and working towards a high level programming language. |
| Assessment 1 – Python techniques and challenges. | | |
| Spring Term | | |
| January – February 2017 | GCSE Taster sessions Lessons; 2 Business 2 Computer Science 2 Creative I-Media | Students will learn about the curriculum within the Business & Computing department. They will learn about what each course consists of and what they should expect from each subject area to assist in choosing their options. |
| February – April 2017 | Binary code / Hexadecimal Flow charts / Pseudo code (Cross ref C/S) | Students will learn how to create a flow chart to solve a problem. They will then go on to create a flow chart based on a set algorithm. They will write Pseudo code and annotate this to explain what it is doing. |
| Assessment 2 – Computational thinking. | | |
| May – June 2017 | Spreadsheets (Cross ref B/S / C/S) What are databases? Database design. Queries and reports. | To include skills on the V-Look up wizard, If function, formatting etc. Know the basics - basic formula (+,-,/,*) and functions (sum, max, min, average). Know more advanced features - macros, hyperlinks, buttons, goal seek, advanced functions (countif, if, absolute cell reference, etc.) Students will gain a variety of skills which include; sort/ search / query / labels. Look at the use of a primary key. Be able to set up a database with appropriate field names, add relevant validation and verification to it. Run a series of simple and complex queries to generate a set of results. Produce tailor made reports which show the results of queries made. |
| Assessment 3 – Spreadsheets & Databases | | |
| Summer Term | | |
| June – July 2017 | Business Studies project – desktop publishing skills / chart analysis. Marketing. What is marketing? Methods of market research. Marketing mix. | Students will create their own business and will learn about how to write a letter, questionnaire, business card, create charts, testing and analysis. They will gain an understanding about what the main principles of an effective, successful marketing campaign are. Know how to identify your target market. Knowing what the marketing mix is and understanding how businesses use it. Creating accurate charts and graphs and analysing primary research results. |