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Long term SOW delivery overview document for KS3 Computing and ICT

NB: Ongoing Assessments are to be graded and SIR marked.

KS3 Yr7	Autumn term 1	Autumn term 2 - Spring term 1	Spring Term 2 – Summer Term 1	Summer term 2
Year 7 Computing and ICT	**Topic: Unit 7.1 eSafety** **NC Strand: eSafety** **Overall aims:** To have a thorough understanding and appreciation of e-Safety related issues. Students will know how to keep themselves and others safe when using ICT **9-1 subject specific areas/skills covered across topic:** I can recall the term cyber bullying (WT1) I can recall the term data loss (WT1) I can recall the term copyright (1) I can describe the term cyber bullying (1) I can describe what is meant by data loss (1) I can describe what copyright means (2) I can identify the term legislation (3) I can explain forms of cyber bullying (3)	**Topic: Unit 7.2 Spreadsheets** **NC Strand: Data Modelling** **Overall aims:** To have a thorough understanding of using numerical data to analyse its use and purpose. **9-1 subject specific areas/skills covered across topic:** I understand the difference between data and labels (WT1) I can enter a spreadsheet from an example (WT1) I understand the terms 'row', 'column' and 'cell (WT1) I calculate sums by hand or use a calculator (WT1) I can adjust cell height/width (1) I can change and alter the grid lines (1) I can use shading (1) I can create a basic graph or chart with no labelling (1) I can use simple formulae using + - * etc. (2) I can create a basic spreadsheet structure (3)	**Topic: Unit 7.3 Interactive Kiosk** **NC Strand: Presentation and Multimedia (Office Skills)** **Overall aims:** To develop core ICT skills which will support core curricula skills at SWR. **9-1 subject specific areas/skills covered across topic:** I can enhance texts e.g. using font, size, colour (1) I can use pre-existing layouts, templates and wizards (1) I can combine texts and graphics (2) I can compile still images into a product (2) I can use at least one editing tool e.g. crop, rotate etc. (3) I can effectively use images to create impact (3) I can import components into a timeline (3) I can enhance texts e.g. using bullet points, numbered lists, tabs (4) I can use Headers and Footers (4) I can split and trim movie clips (4)	**Topic: Unit 7.4 Coding with Cryptography** **NC Strand: Coding** **Overall aims:** Be able to use and explain how cryptography is used in everyday society and its impact. **9-1 subject specific areas/skills covered across topic:** I understand the term Cryptography (1) I can explain what Cryptography means. (2) I understand the purpose of codes (2) I can use at least 2 different methods to read a code. (2) I am able to write my own Caesar cipher code to send a message (2) - Homework 1 I am able to describe how an encryption key works. (3) I can use one / two code breaking methods to decipher a message (3)

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Year 7 Computing and ICT	I can explain what data loss means (3) I can recall the term 'hacking' (3) I can discuss copyright law (4) I understand what a computer Virus/Worm is (4) I can identify personal risks to myself when using technology (e-safety) (4) **Ongoing Assessments (*9-1 specific*):** Assessment 1: Homework task Assessment 2: End of unit test	I can use SUM and/or the Autosum feature (3) I can create a basic graph or chart with some labelling (3) I can adjust cell formats e.g. currency, date, number (4) I can change a variable to show a different outcome (4) I can create a graph or chart with headings/labelling (4) I can explain what validation is, and what it is used for (4) I can use limited data validation (4) **Ongoing Assessments (*9-1 specific*):** Assessment 1: Class project Assessment 2: End of unit test Assessment 3: Project presentation	**Ongoing Assessments (*9-1 specific*):** Assessment 1: Homework task Assessment 2: Class project	I can describe two advantages and two disadvantages of using code using examples. (3) Homework 2 I am able to write my own interactive code. (4) I know the impact of coding today (4) **Extension:** I am to describe the impact of coding in everyday situations (5) **Ongoing Assessments (*9-1 specific*):** Assessment 1: Group project Assessment 2: End of unit test

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KS3 Yr8	Autumn term	Spring Term – Summer Term 1	Summer term 2
Year 8 Year 8 Computing and ICT	**Topic: Unit 8.1 Understanding Computing Systems** **NC Strand: (Computing)** **Overall aims: Introduce students to the key computing principles and theory.** **9-1 subject specific areas/skills covered across topic:** I can recall a variety of devices (1) I understand what an input and output device is (1) I understand the terms hardware and software (1) I can identify the terms Backup and Archiving (1) I can recall what a CPU is (2) I understand the difference between hardware and software and storage devices (2) I can explain the term File Format and file sizes (2) I can describe the terms Backup and Archiving (2) I know the keys areas of a computer System (3) I can recall a range of data types (3) I understand the terms LAN and WAN (3) I understand network devices e.g. wireless router (4) I can explain different types of storage and connectivity devices (4) I can recall the features of an Operating System (5) I can explain how to use a range of backup and recovery system (5) **Ongoing Assessments (*9-1 specific*):** Assessment 1: Homework task Assessment 2: Class task Assessment 3: Class project Assessment 4: End of unit test	**Topic: Unit 8.2 Web creation** **NC Strand: (Presentation and Digital Literacy)** **Overall aims: Developing web design knowledge and skills using specialist industry software (Adobe Dreamweaver)** **9-1 subject specific areas/skills covered across topic:** I can create a simple webpage (1) I can add information to be displayed on a webpage. (1) I can view my webpage in a browser (2) I can organise my information so it appears correctly on screen (2) I can create a multipage website with pages linked together. (3) I can correct problems that I find when testing my website. (4) I can create simple hyperlinks (4) I can layout my information to suit the needs of the end user. (5) I can create hotspots. (5) **Ongoing Assessments (*9-1 specific*):** Assessment 1: Homework task (page designs) Assessment 2: Class task (purpose and audience) Assessment 3: Webpage creation (Mid review) Assessment 4: Final website product	**Topic: Unit 8.3 Database Developing** **NC Strand: (Data and Data Modelling)** **Overall aims: Creating and editing databases and understand how to use data for decision making.** **9-1 subject specific areas/skills covered across topic:** I can give an example of a simple database (1) I can open an existing database and add data (2) I can sort and filter data (2) I can recall examples of two paper-based databases (2) I can import a text file (3) I can add data and additional fields to an existing database table (3) I can explain what a database is and how it might be used in real world situations (3) I can create a simple database query that is relevant (4) I can produce a simple database report (4) I can produce a report from simple and complex (5) I can create modifications to a database table that are free from errors (5) **Ongoing Assessments (*9-1 specific*):** Assessment 1: Homework task Assessment 2: Class task Assessment 3: Unit test (mid review task) Assessment 4: End final product (front cover)

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KS3 Yr9	Autumn Term	Spring Term	Summer Term
Year 9 Year 9 Computing and ICT	**Topic: Unit 9.1 HTML and Web Design** **NC Strand: Programming** **Overall aims:** Develop theory and practical skills in web design using the HTML language **9-1 subject specific areas/skills covered across topic:** I can view my webpage in a browser. (2) I can organise my information so it appears correctly on screen. (2) I can create a multipage website with pages linked together. (3) I can correct problems that I find when testing my website. (4) I can create simple hyperlinks. (4) I can use HTML tags to change the formatting of my website. (5) I can layout my information to suit the needs of the end user. (5) I can create hotspots. (5) I can explain why a problem occurred from a test I ran in my website. (6) I can create a website that can be viewed on any computer at different resolutions. (6) **Ongoing Assessments (*9-1 specific*):** Assessment 1: Homework task Assessment 2: Report Assessment 3: Website Product	**Topic: Unit 9.2 Database design and development** **NC Strand: Data Modelling** **Overall aims: To capture and analyse data effectively** **9-1 subject specific areas/skills covered across topic:** I can sort and filter data (2) I can recall examples of two paper-based databases (2) I can import a text file (3) I can add data and additional fields to an existing database table (3) I can explain what a database is and how it might be used in real world situations (3) I can create a simple database query that is relevant (4) I can produce a simple database report (4) I can create a simple query using one table/criteria (5) I can produce a report from simple and complex (5) I can create modifications to a database table that are free from errors (5) I can add error-free data to a database (6) **Ongoing Assessments (*9-1 specific*):** Assessment 1: Homework task Assessment 2: Class task Assessment 3: Database Systems	**Topic: Unit 9.3 Digital Creativity - Fake It** **NC Strand: Digital Literacy** **Overall aims: To use industry standard specialist software to enhance future career in IT** **9-1 subject specific areas/skills covered across topic:** I can combine texts and graphics (2) I can use at least one editing /technique tool e.g. crop, rotate etc. (3) I can effectively use images to create impact (3) I have an awareness of layout and its impact on audience and purpose (4) I can effectively use layers (4) I can edit an image using more than one tool (5) I can lay out texts and pictures in a number of ways e.g. in-line, wrapped etc. (5) I can use tools to create an effective layout (6) I understand the importance of image resolution (6) I can combine images and graphics to create an effective impact for an audience (7) **Ongoing Assessments (*9-1 specific*):** Assessment 1: Homework task Assessment 2: Class task Assessment 3: Image manipulation task Assessment 4: End of unit test