







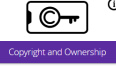

















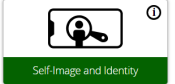




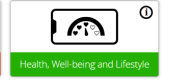


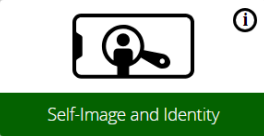
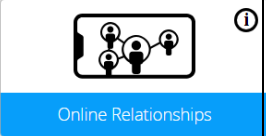







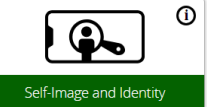
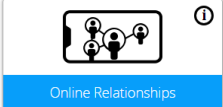




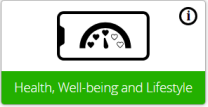




Clee Hill Community Academy Computing Long Term Plan

















Cycle A	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
	Computing Systems and networks	Creating Media	Programming A	Data and Information	Creating Media	Programming B
Class 2: Online safety coverage	Project Evolve: Year 1   Self-Image and Identity Online Relationships	Smartie the Penguin 1A Project Evolve: Year 1   Online Reputation	Project Evolve: Year 1  Online Bullying	Project Evolve: Year 1   Managing Online Information Health, Well-being and Lifestyle	Project Evolve: Year 1  Privacy and Security	Project Evolve: Year 1  Copyright and Ownership
Class 2	NCCE: Year 1: Technology around us. Recognising technology in school and using it responsibly -Name 3 types of technology (computer, iPad, traffic lights, laptop, heating system). -Locate the on switch of a desktop PC. -Know that the shift key creates a capital letter.	NCCE: Year 2: Digital photography Capturing and changing digital photographs for different purposes. -Explain what I did to capture a digital photo -Explain why a photo looks better in portrait or landscape format -Use a tool to achieve a desired effect	NCCE: Year 1: Moving a robot Writing short algorithms and programs for floor robots, and predicting program outcomes -Program a 'robot' -Follow a set of simple instructions -Debug my program	NCCE: Year 2: Pictograms Collecting data in tally charts and using attributes to organise and present data on a computer. -Record data in a tally chart -Use pictograms to answer simple questions about objects -Explain what the pictogram shows	NCCE: Year 1 Digital writing. Using a computer to create and format text, before comparing to writing non-digitally -Know that the space key makes a space and backspace deletes text. -Know that where the font and size icons are and what they change font style and make it bigger or smaller.	NCCE: Year 2 Programming quizzes Designing algorithms and programs that use events to trigger sequences of code to make interactive quiz. -Change the outcome of a sequence of commands -Decide which blocks to use to meet the design -Debug my program
Class 3 Online safety coverage	Project Evolve: Year 3   Self-Image and Identity Online Relationships	Smartie the Penguin 2A Project Evolve: Year 3   Online Reputation	Project Evolve: Year 3  Online Bullying	Project Evolve: Year 3   Managing Online Information Health, Well-being and Lifestyle	Project Evolve: Year 3  Privacy and Security	Project Evolve: Year 3  Copyright and Ownership
Class 3	NCCE: Year 3: Connecting computers Identifying that digital devices have inputs, processes, and outputs, and how devices can be connected to make networks. -Identify at least 2 networked devices around them (Network switch, server, wireless access point- see knowledge organiser). - Explain that different devices have different purposes. (smartboard for teaching, iPad for researching).	NCCE: Year 2: Digital photography Capturing and changing digital photographs for different purposes. -Explain what I did to capture a digital photo -Explain why a photo looks better in portrait or landscape format -Use a tool to achieve a desired effect	NCCE: Year 3: Sequencing sounds https://teachcomputing.org/curriculum/key-stage-2/programming-a-sequence-in-music Creating sequences in a block-based programming language to make music using Sphero BOLTS -Create a sequence of connected commands -Combine sound commands -Implement my algorithm as code	NCCE: Year 2: Pictograms Collecting data in tally charts and using attributes to organise and present data on a computer. -Record data in a tally chart -Use pictograms to answer simple questions about objects -Explain what the pictogram shows	NCCE: Year 3: Desktop publishing Creating documents by modifying text, images, and page layouts for a specified purpose. -Explain the difference between text and images. -Demonstrate how to change font size and colour on a desktop computer (through Word or Publisher).	NCCE: Year 2: Programming quizzes Designing algorithms and programs that use events to trigger sequences of code /quiz. -Change the outcome of a sequence of commands -Decide which blocks to use to meet the design -Debug my program
Class 4: Online safety coverage	Project Evolve: Year 4   Self-Image and Identity Online Relationships	Project Evolve: Year 4  Online Reputation	Project Evolve: Year 4  Online Bullying	Project Evolve: Year 4   Managing Online Information Health, Well-being and Lifestyle	Project Evolve: Year 4  Privacy and Security	Project Evolve: Year 4  Copyright and Ownership
Class 4	NCCE: Year 4: The internet Recognising the internet as a network of networks including the WWW, and why we should evaluate online content. -Know that websites and their contents are created by people. -Know that information found online is not necessarily honest, accurate or legal. -Know what a URL address is and how to access a website.	NCCE: Year 5: Video production Planning, capturing, and editing video to produce a short film. -Use different camera angles -Use trim and crop to edit a video -Identify videos can be improved through and reshooting or editing	NCCE: Year 4: Repetition in shapes Using a text-based programming language to explore count-controlled loops when drawing shapes. -Be able to identify patterns of repetition in real life (brushing teeth, dance). -Explain how to use the repeat block in Scratch	NCCE: Year 5: Flat-file databases Using a database to order data and create charts to answer questions. -Outline how 'AND' and 'OR' can be used to refine data selection - Select an appropriate graph to visually compare data	NCCE: Year 4: Photo editing Manipulating digital images, and reflecting on the impact of changes and whether the required purpose is fulfilled. -Explain the uses for gathered data. -Explain the different ways that data may be gathered.	NCCE: Year 5: Selection in quizzes Exploring selection in programming to design and code an interactive quiz. -Identify the condition and outcomes in an 'if... then... else...' statement -Show that a condition can direct program flow in one of two ways -Identify the outcome of user input in an algorithm.

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Class 5: Online safety coverage	Project Evolve: Year 6  	Project Evolve: Year 6 	Project Evolve: Year 6 	Project Evolve: Year 6  	Project Evolve: Year 6 	Project Evolve: Year 6 
Class 5	<u>NCCE: Year 6: Communication and collaboration</u> Exploring how data is transferred by working collaboratively online. -Outline and evaluate methods of communicating and collaborating using the internet	<u>NCCE: Year 5: Video production</u> Planning, capturing, and editing video to produce a short film. -Use different camera angles -Use trim and crop to edit a video -Identify videos can be improved through and reshooting or editing	<u>NCCE: Year 6: Variables in games</u> Exploring variables when designing and coding a game. -Define a ‘variable’ as something that is changeable - Experiment with the value of an existing variable	<u>NCCE: Year 5: Flat-file databases</u> Using a database to order data and create charts to answer questions. -Outline how ‘AND’ and ‘OR’ can be used to refine data selection - Select an appropriate graph to visually compare data	<u>NCCE: Year 6: 3D modelling</u> Planning, developing, and evaluating 3D computer models of physical objects. -Use digital tools to modify 3D objects	<u>NCCE: Year 5: Selection in quizzes</u> Exploring selection in programming to design and code an interactive quiz. -Identify the condition and outcomes in an ‘if... then... else...’ statement -Show that a condition can direct program flow in one of two ways -Identify the outcome of user input in an algorithm

Cycle B	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
	Computing Systems and networks	Creating Media	Programming A	Data and Information	Creating Media	Programming B
	Smartie the Penguin 1B Project Evolve: Year 2  	Smartie the Penguin 1B Project  Evolve: Year 2 	Project Evolve: Year 2 	Project Evolve: Year 2  	Project Evolve: Year 2 	Project Evolve: Year 2 
Class 2	<u>NCCE: Year 2: Information technology around us</u> Identifying IT and how its responsible use improves our world in school and beyond. - name the main parts of a computer - use a mouse to click and drag - type my name on a computer - save my work to a file and open it again	<u>NCCE: Year 1 Digital painting</u> Choosing appropriate tools in a program to create art, and making comparisons with working non-digitally -Use the shape and line tools effectively -Choose appropriate paint tools and colours -Change the colour and brush sizes	<u>NCCE: Year 2 Robot algorithms</u> Creating and debugging programs, and using logical reasoning to make predictions. -Use 4 commands in a sequence including forwards/backwards/left turn/right turn. -Know when and how to debug programs. -Know a series of instructions (usually on a computer) is called an Algorithm	<u>NCCE: Year 1 Grouping data.</u> Exploring object labels, then using them to sort and group objects by properties -Use a computer to write, add/remove text. -Alter font including size and style. -Name a group of objects using a label according to property (including size, shape or colour).	<u>NCCE: Year 2 Digital music</u> Using a computer as a tool to explore rhythms and melodies, before creating a musical composition. -Show how music is made from a series of notes. -Create music for a purpose, review and refine computer work.	<u>Programming B - Programming animations</u> Designing and programming the movement of a character on screen to tell stories -Show that a series of commands can be joined together. - Identify the effect of changing a value. -Explain that each sprite has a set of its own instructions.
	Project Evolve: Year 2  	Smartie the Penguin 2A  Project Evolve: Year 2 	Project Evolve: Year 2 	Project Evolve: Year 2  	Project Evolve: Year 2 	Project Evolve: Year 2 

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Class 3	<p><u>NCCE: Year 2 Information technology around us</u></p> <p>Identifying IT and how its responsible use improves our world in school and beyond.</p> <ul style="list-style-type: none"> - name the main parts of a computer - use a mouse to click and drag - type my name on a computer - save my work to a file and open it again 	<p><u>NCCE: Year 3 Stop-frame animation</u></p> <p>Capturing and editing digital still images to produce a stop-frame animation that tells a story.</p> <ul style="list-style-type: none"> -Explain that an animation is a sequence of pictures or images. -add other media to my animation 	<p><u>NCCE: Year 2 Robot algorithms</u></p> <p>Creating and debugging programs, and using logical reasoning to make predictions.</p> <ul style="list-style-type: none"> -Use 4 commands in a sequence including forwards/backwards/left turn/right turn. -Know when and how to debug programs. -Know a series of instructions (usually on a computer) is called an Algorithm 	<p><u>NCCE: Year 3: Branching databases</u></p> <p>Building and using branching databases to group objects using yes/no questions.</p> <ul style="list-style-type: none"> -To give an example of an open-ended question and a yes/no question. -Know that the objects in a branching database need to be split into similar sized groups. 	<p><u>NCCE: Year 2 Digital music</u></p> <p>Using a computer as a tool to explore rhythms and melodies, before creating a musical composition.</p> <ul style="list-style-type: none"> -Show how music is made from a series of notes. -Create music for a purpose, review and refine computer work. 	<p><u>NCCE: Year 3 Events and actions in programs</u></p> <p>Writing algorithms and programs that use a range of events to trigger sequences of actions.</p> <ul style="list-style-type: none"> -Use codes to determine an outcome. - Evaluate and implement their designs.
	<p>Project Evolve: Year 5</p>  <p>Self-Image and Identity</p>  <p>Online Relationships</p>	<p>Project Evolve: Year 5</p>  <p>Online Reputation</p>	<p>Project Evolve: Year 5</p>  <p>Online Bullying</p>	<p>Project Evolve: Year 5</p>  <p>Managing Online Information</p>  <p>Health, Well-being and Lifestyle</p>	<p>Project Evolve: Year 5</p>  <p>Privacy and Security</p>	<p>Project Evolve: Year 5</p>  <p>Copyright and Ownership</p>
Class 4	<p><u>NCCE: Year 5 Systems and searching</u></p> <p>Recognising IT systems in the world and how some can enable searching on the internet</p> <ul style="list-style-type: none"> -Explain that computers can be connected together to form IT systems 	<p><u>NCCE: Year 4 Audio production</u></p> <p>Capturing and editing audio to produce a podcast, ensuring that copyright is considered.</p> <ul style="list-style-type: none"> -Identify the uses for recorded audio (music, podcasts etc.). -Explain the ways that audio can be recorded and how to make it of high quality. 	<p><u>NCCE: Year 4 Data logging</u></p> <p>Recognising how and why data is collected over time, before using data loggers to carry out an investigation.</p> <ul style="list-style-type: none"> -Choose a data set to answer a given question -Use data from a sensor to answer a given question -Identify the intervals used to collect data 	<p><u>NCCE: Year 5 Introduction to vector graphics</u></p> <p>Creating images in a drawing program by using layers and groups of objects.</p> <ul style="list-style-type: none"> Duplicate objects using copy and paste -Recognise that vector images can be scaled without impact on quality 	<p><u>NCCE: Year 4 Repetition in games</u></p> <p>Using a block-based programming language to explore count-controlled and infinite loops when creating a game.</p> <ul style="list-style-type: none"> -Explain the uses of repetition in programming and link this with the drawing of various shapes. 	<p><u>NCCE: Year 5 Selection in physical computing</u></p> <p>Exploring conditions and selection using a programmable microcontroller</p> <ul style="list-style-type: none"> -Use a condition in an 'if...then...' statement to start an action -Create a condition-controlled loop
	<p>Project Evolve: Year 5</p>  <p>Self-Image and Identity</p>  <p>Online Relationships</p>	<p>Project Evolve: Year 5</p>  <p>Online Reputation</p>	<p>Project Evolve: Year 5</p>  <p>Online Bullying</p>	<p>Project Evolve: Year 5</p>  <p>Managing Online Information</p>  <p>Health, Well-being and Lifestyle</p>	<p>Project Evolve: Year 5</p>  <p>Privacy and Security</p>	<p>Project Evolve: Year 5</p>  <p>Copyright and Ownership</p>
Class 5	<p><u>NCCE: Year 5 Systems and searching</u></p> <p>Recognising IT systems in the world and how some can enable searching on the internet</p> <ul style="list-style-type: none"> -Explain that computers can be connected together to form IT systems 	<p><u>NCCE: Year 6 Webpage creation</u></p> <p>Designing and creating webpages, giving consideration to copyright, aesthetics, and navigation.</p> <ul style="list-style-type: none"> -Draw a web page layout that suits my purpose -Explain why I should use copyright-free images -Add content to my own web page 	<p><u>NCCE: Year 6 Introduction to spreadsheets</u></p> <p>Answering questions by using spreadsheets to organise and calculate data.</p> <ul style="list-style-type: none"> -Apply an appropriate format to a cell -Construct a formula in a spreadsheet -Identify that changing inputs changes outputs 	<p><u>NCCE: Year 5 Introduction to vector graphics</u></p> <p>Creating images in a drawing program by using layers and groups of objects.</p> <ul style="list-style-type: none"> -Duplicate objects using copy and paste -Recognise that vector images can be scaled without impact on quality 	<p><u>NCCE: Year 6 Sensing movement</u></p> <p>Designing and coding a project that captures inputs from a physical device.</p> <ul style="list-style-type: none"> -Use the same variable in more than one location in a program 	<p><u>NCCE: Year 5 Selection in physical computing</u></p> <p>Exploring conditions and selection using a programmable microcontroller.</p> <ul style="list-style-type: none"> -Use a condition in an 'if...then...' statement to start an action -Create a condition-controlled loop