Online Safety:

Powerful Passwords; My Online Community; Things for Sale; Show Respect Online; Writing Good Emails

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Digital Literacy	Information Technology	Computer Science

Digital Literacy

Stop frame animation
I can create an effective storyboard, flip book-style animation and stop frame animation
I can evaluate the quality of my animation and improve it based on feedback.
I can add other media to my animation and explain the choices I made.

Branching databases
I can design yes/no questions.
I can group and arrange objects according to their attributes.
I can organise questions and objects to a tree structure.
I can compare different ways of presenting information.

Desktop publishing
I can identify advantages of text and images to communicate messages.
I can edit and format text, layout and page settings for a reason.
I can explain why desktop publishing might be helpful in the real world.

Information Technology

Connecting computers
I can explain that digital devices accept inputs and produce outputs.
I can follow a simple process.
I can identify similarities and differences between digital/non-digital devices.
I can explain the role of a switch, server, different connections and wireless access points in a network to share information.
I can identify how devices in a network are connected and benefits of this.

Computer Science

Sequence in music
I can recognise the objects and commands in scratch.
I can start a program in different ways.
I can use commands in a sequence.
I can choose algorithms and objects for project and make changes.

Events and actions
I can choose keys to use for actions and movement.
I can adapt a program and add extra features.
I can test a program and modify it.
I can implement a design and evaluate my project.

Online safety
I can create a secure password.
I can explain how the internet can be used to connect people and create communities.
I can explain how websites can be used for a particular purpose.
I can communicate respectfully.
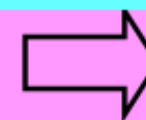I can write a well-written email.

Computing Curriculum Plan by Year Group

Online Safety:

Rings of responsibility; Private and Personal Information; The Power of Words; The Key to Keywords; Whose is it, anyway?

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| Digital Literacy	Information Technology	Computer Science
Data logging I can identify data needed to answer questions. I can collect, import and sort data. I can interpret the data I have collected. **Photo editing** I can recognise changes that can be made to an image and reasons for/consequences of this. I can edit an image choosing appropriate tools. I can evaluate the impact of my work on others. **Audio editing** I can identify inputs and outputs to play or record sound. I can record, playback and save audio recordings I can choose, edit and arrange sections of audio. I can evaluate features of digital recordings and suggest improvements.	**The internet** I can describe the internet as a network of networks and how different networked devices connect, I can explain how the World Wide Web is part of the internet. I can explain how content can be added, accessed and shared online. I can evaluate the accuracy ad reliability and explain some of the consequences of this.	**Repetition in shapes** I can program a computer by typing commands. I can write an algorithm and use a count-controlled loop for a given outcome. I can identify smaller chunks of a program. I can design and debug my own program. **Repetition in games** I can modify code and loops in a program. I can design a program with multiple loops. I can design and create a program that includes repetition.

Online safety
I can explain the responsibilities I have as a good digital citizen.
I can explain how to protect myself from online identify theft.
I can explain what to do if I see something upsetting online.
I can use keywords in my web searches.
I can show respect for people's work.
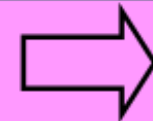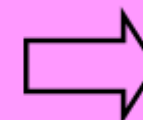
Computing Curriculum Plan by Year Group

Online Safety:

Strong Passwords; Digital Citizenship Pledge; You've won a prize; How to cite a site; Picture Perfect

Digital Literacy	Information Technology	Computer Science
Video editing I can recognise and use the features of recoding devices I can record clips that use features of an effective video. I can make improvements to my video using a range of strategies and tools. I can evaluate my video and understand the impact of my choices on the quality of the outcome **Flat-file databases** I can create questions and order, sort and group data from the responses. I can use the database to find specific data. I can compare different ways data is organized, stored and presented. I can apply my learning to a real-world context. **Vector drawing** I can identify and use a range of drawing, editing and formatting tools for a desired effect. I can evaluate my work and suggest improvements.	**Sharing information** I can explain how computer systems work. I can identify how computer systems are used in everyday lives. I can recognise how unique addresses and packets are used in transferring information. I can work together on a shared project online and evaluate the success of this.	**Selection in physical computing** I can build a simple circuit to connect a microcontroller to a computer. I can design sequences for given output devices. I can program a microcontroller to respond to an output. I can identify a condition and an action in my project. I can design a project that incudes selection. I can write and algorithm for an intended outcome and test and debug my project. **Selection in quizzes** I can identify and modify conditions in a program. I can create a program with different outcomes. I can show that a condition can direct the flow of a program. I can identify the potential outcomes of an algorithm. I can create, test and improve a program using selection.

Online safety
I can explain the role of a secure password in protecting private information.
I can explain how to create a positive online community.
I can explain what spam is and what I can do about it.
I can explain how to cite different sources.
I can explain how images can be altered and how this can affect the way we feel about ourselves.

Online Safety:

Talking Safely Online; Super Digital Citizenship; Privacy Rules; What's Cyber Bullying?; Selling Stereotypes

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Digital Literacy	Information Technology	Computer Science
Webpage creation I can recognise the features and structure of a webpage. I understand the idea of 'fair-use' and 'copyright-free' I can add, review and edit the content, navigation and links. I can evaluate the user experience and external links and explain the implications of these. **Spreadsheets** I can pose relevant questions and build a data set. I can use an appropriate number format and formula for cells. I can use a range of formula and cell tools. I can produce a graph and use this to answer questions. I can make appropriate choices in how to present data. **3D modelling** I can create, select, move, change and delete a 3D shape. I can modify the position, orientation, appearance and size of a 3d shape. I can plan and create a 3D model. I can evaluate and improve my model.	**Communication** I can complete and refine a web search. I can explain factors affecting search results, ranking and why the order of results is important. I can recognise and compare different methods of communication for different purposes.	**Variables in games** I can explain that a variable has a name and a value and can be changed. I can decide where to change a variable to make a program better. I can create algorithms and test the code I have written. I can identify ways to improve my game further using more variables. **Sensing** I can use selection to determine the flow of a program. I can use different physical inputs. I can modify a program to achieve a different outcome. I can decide the algorithm, variables and flow for my project. I can create and test my program using a range of approaches to fix bugs.

Online safety
I can explain the difference between online and in-person friends.
I can explain how to help others be good digital citizens.
I can use strategies to check if a website protects private information.
I can explain how to deal with cyberbullying.
I can explain how stereotypes are used in the world around us.