COMPUTING

How do building skills for programming enable me to make an application for a mobile phone?

- To know how to test an evaluate my app
- To know how to code all aspects of your app that allow the user to complete the game you have designed
- To know how to create code to allow the user to navigate through all the pages (by click or timer)
- To know how to create the visual design for the app from the plan phase and algorithm incorporating the logo you created
- To know how to plan a mobile phone application using computational thinking and algorithms

Project – Create a logo for a specific brand/ product in Adobe Photoshop

How do building programming skills in HTML allow me to create a website?

- To know how to design a website with hyper links
- To know to design a website with multiple pages
- To know how to design a webpage with a table to store images and data
- To know how to design a webpage with images/logos using HTML code

Project – Create a website using HTML code

How do skills for branding and marketing allow me to design an effective logo in photoshop?

- I know how to create a final logo using advanced Photoshop tools and skills and explain the design linking to marketing requirements
- I know how to use a variety of photoshop tools to create several design ideas for my logo
- I know how to create mood boards and outline designs for my logo linking to specific market requirements
- I know how to explain the importance of branding for marketing

How does using various programming techniques and data types enable me to build a programme in Python

- I know how to create a python quiz/game project using skills acquired for functions, inputs/outputs, selection/cases, iterations and sub programmes
- I know how to demonstrate iterations
- I know how to demonstrate sub programmes
- I know how to demonstrate functions, input and outputs and selections/cases

How does Scratch Programming improve my knowledge of programming sequencing, selection and iteration?

- I know how to add costumes to my sprites and code them to change when the game ends
- I know how to add code to add lives and a score to the Space Invaders project
- I know how to code my enemy to make it shoot bullets at random times
- I know how to add code to my cannon, so it shoots bullets when a specific key is pressed
- I know how to add code to make my enemy move automatically and end the game if it touches the cannon
- I know how to create a background, sprite and code them to make my cannon move via key press for my Space Invaders Project

Project – Create a Space Invaders game using Scratch Programming

How do we improve our knowledge of algorithms by solving real world problems step by step?

- To know how to use algorithms to plan the production of a space invaders game in Scratch Programming
- To know how to use flow charts to break down the scenario of making a space invaders game in Scratch
- To know the flow chart shapes for solving algorithms
- To know how to break down a problem into step-by-step instructions

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