

YEAR 9 LEARNING JOURNEY INFORMATION

COMPUTING

Introduction to Python Programming



Autumn Term 1

Python - Intro
Math Operators
Logic Operators
If Else Elif
While Loops
Iteration & Selection

Skills: Understand how to use basic text based code using Python

Data Science



Autumn Term 2

Intro to Data Science
Global data
Statistics
Data for Action
Clean it up
Make a change

Skills: learners will be introduced to data science, and by the end of the unit they will be empowered by knowing how to use data to investigate problems and make changes to the world around them

Animation

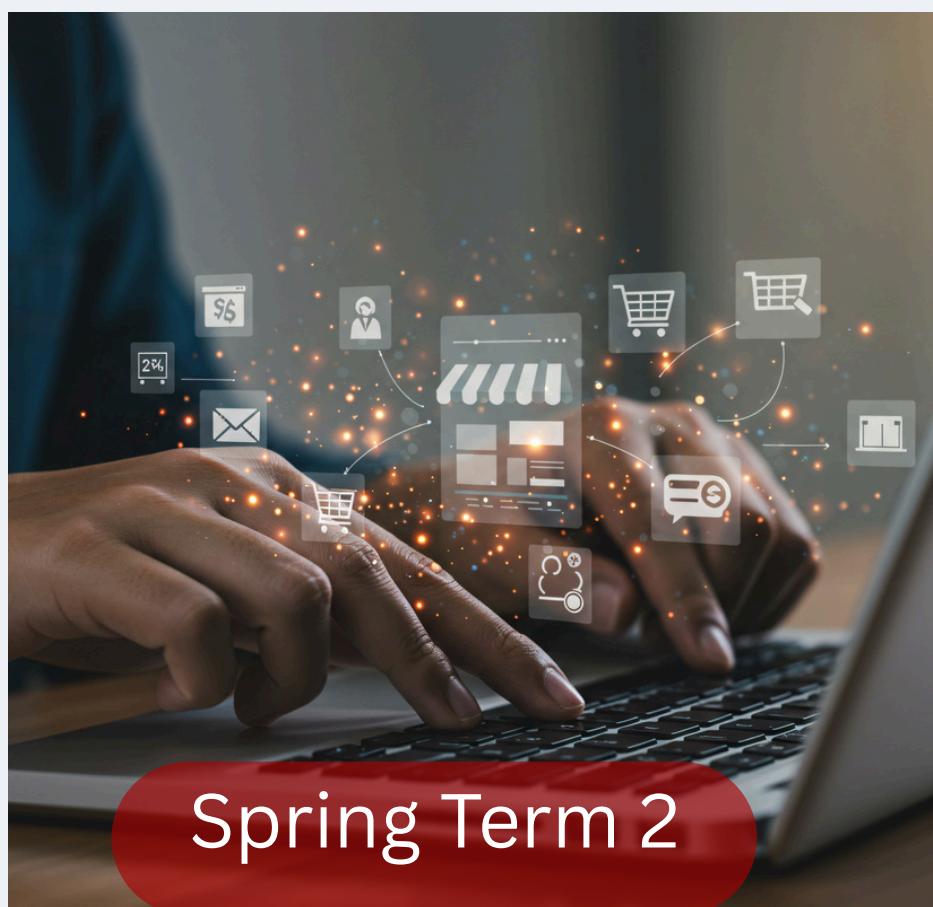


Spring Term 1

Introduction to Animation & Wick Editor
Drawing Tools & Keyframe Animation
Character Design & Multi-Layer Animation
Storyboarding & Scene Animation
Building the Final Animation
Exporting & Evaluating Animation

Skills: Understand what key frame animation is, design characters and tell a story using the animation software

Representations

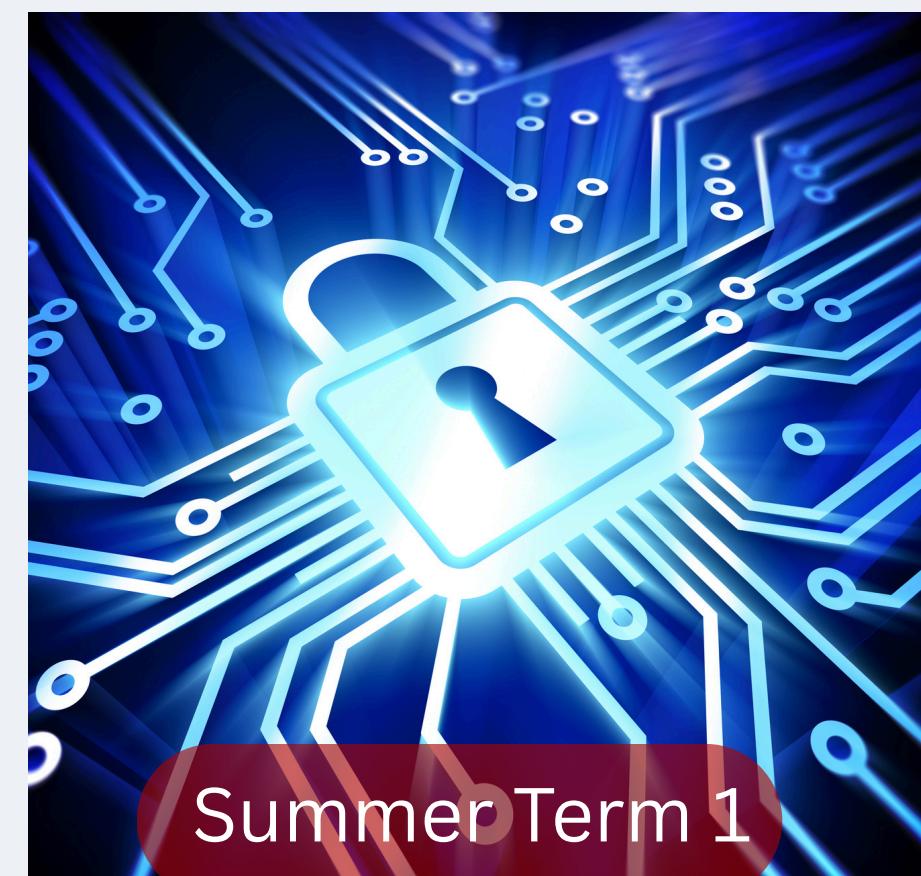


Spring Term 2

Representations Binary
Colour RGB
Colour Depth
Photo pea
Sound calculations

Skills: learners will focus on making digital media such as images and sounds and discover how media is stored as binary code.

Cyber Security



Summer Term 1

Cyber security Intro
Social engineering
Hacking
Malware Threats
Assessment PPT

Skills: Learners discover techniques that cybercriminals use to steal data, disrupt systems, and infiltrate networks and finally look at methods to protect against these attacks.

Video and Sound Project



Summer Term 2

Introduction to Media Project & Basic Techniques
Planning & Pre-production
Video Editing Techniques
Sound Editing
Creating Project
Refining the Project
Final Presentations & Evaluation

Skills: Learners will learn about video and sound editing. They will import video and sound clips to make an advert for their client using techniques provided by the software.