

CURRICULUM ROAD MAP – Emerald Pathway

YEAR 7

TERM 1

Topic: Connective Computers
Skills: Students will learn how digital devices work, connect, and share information in networks.

Key Vocab:
Digital Devices
Input Devices
Output Devices
Networks
Connectivity



TERM 2

Topic: Stop-frame Animation (AQA unit award)
Skills: Use an iPad and an appropriate app to film a stop frame animation

Key Vocab:
Frame
Timeline
Onion Skinning
Playback
Animation



TERM 3

Topic: Sequencing Sounds
Skills: to use a programming environment, understand how commands work in order, and create and customise a project from a task

Key Vocab:
Program
Command
Sequence
Start Block
Debugging



TERM 4

Topic: Branching Database
Skills: to collect data, organise it, and create a simple branching database

Key Vocab:
Branching Database
Attributes
Classification
Structure
Identification Key



TERM 5

Topic: Desktop Publishing
Skills: learn how to design and edit text and images to create effective desktop publishing layouts

Key Vocab:
Desktop Publishing
Layout
Formatting
Page settings
Visual communication



TERM 6

Topic: Events and Actions in Programs
Skills: learn how to program and control a sprite, improve and debug their work, and design a simple maze game.

Key Vocab:
Sprite
Movement
Commands
Sequence
Debugging
Algorithm



CURRICULUM ROAD MAP – Emerald Pathway

YEAR 8/9

TERM 1

Topic: Cells and Microscopy
Skills: .

Key Vocab:
Mouse control
Typing
Keyboard
Cursor
Accuracy



TERM 2

Topic: Desktop Computer skills
Skills: AQA Unit award
Basic computer Skill/
ICT Basic Skills including
Microsoft Word

Key Vocab:
Audio Recording
Editing
Podcast
Sound Effect
Evaluation



TERM 3

Topic: Digital Art
Skills: learn how to use drawing tools on an iPad to create and edit digital artwork in the style of an artist

Key Vocab:
Eraser Tool
Freehand Tool
Shape Tool
Line Tool
Digital Art



TERM 4

Topic: Data Logging
Skills: learn how to collect, analyse and use data from sensors over time to answer questions

Key Vocab:
Data Logging
Sensor
Data Points
Analysis
Automation



TERM 5

Topic: Photo Editing
Skills: learn how to edit, combine, and improve digital images using colour changes and cloning tools

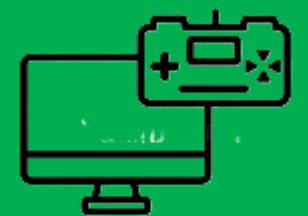
Key Vocab:
Image Editing
Composition
Colour Adjustment
Cloning Tool
Enhancement



TERM 6

Topic: Repetition in Games
Skills: learn how to design and create programs using different types of loops, including repeating actions at the same time

Key Vocab:
Loop
Count- controlled Loop
Infinte Loop
Repetition
Concurrent Loops



CURRICULUM ROAD MAP – Forest Pathway

YEAR 8

TERM 1

Topic: The Internet
Skills: learn how networks connect, how the internet and the World Wide Web work, and how information is shared and created online. AQA Unit Award- Using the Internet

Key Vocab:
Network
Internet
World Wide Web
Website
Web Content



TERM 2

Topic: Audio Production
Skills: learn how to record, edit, and combine audio to create and evaluate an effective podcast

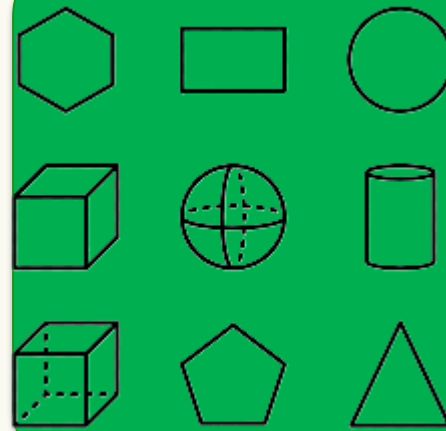
Key Vocab:
Audio Recording
Editing
Podcast
Sound Effect
Evaluation



TERM 3

Topic: Repetition in Shapes:
Skills: learn how to write accurate text-based programs using loops, break tasks into steps, and create working solutions

Key Vocab:
Text-based
Programming
Loop
Repeat
Decomposition
Accuracy



TERM 4

Topic: Data Logging
Skills: learn how to collect, analyse and use data from sensors over time to answer questions
AQA Unit award- Handling content and Information

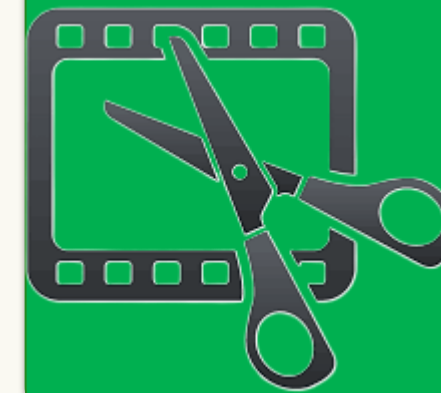
Key Vocab:
Data Logging
Sensor
Data Points
Analysis
Automation



TERM 5

Topic: Photo Editing
Skills: learn how to edit, combine, and improve digital images using colour changes and cloning tools

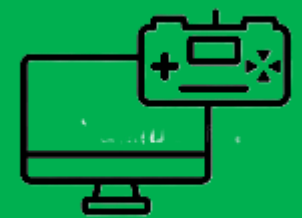
Key Vocab:
Image Editing
Composition
Colour Adjustment
Cloning Tool
Enhancement



TERM 6

Topic: Repetition in Games
Skills: learn how to design and create programs using different types of loops, including repeating actions at the same time

Key Vocab:
Loop
Count- controlled Loop
Infinte Loop
Repetition
Concurrent Loops



CURRICULUM ROAD MAP – Forest Pathway

YEAR 9

TERM 1

Topic: Systems and Searching
Skills: Learning how computer systems work and how to search for information

Key Vocabulary
System
Network
Search Engine
Algorithm
Ranking



TERM 2

Topic: Video Production
Skills: How to plan, record, edit and improve videos

Key Vocabulary
Storyboard
Filming
Shot
Editing
Audience



TERM 3

Topic: Video Production
Skills: How to plan, film, edit and evaluate videos

Key Vocabulary
Storyboard
Angle
Type
Editing
Audience



TERM 4

Topic: Flat File Database
Skills: How to collect, organise, sort and filter data

Key Vocabulary
Database
Record
Field
Sort
Filter



TERM 5

Topic: Introduction to Vector Graphics
Skills: How to create and edit vector graphics

Key Vocabulary
Vector Graphic
Shape
Layer
Group
Edit



TERM 6

Topic: Selection in Quizzes
Skills: How to use selection in programs to make decisions

Key Vocabulary
Selection
Condition
Statement
Outcome
Algorithm



CURRICULUM ROAD MAP – Options pathway- BTEC level 2 IT Users

YEAR 10

TERM 1

Topic: IT User Fundamentals.
Skills: Focusing on the skills and techniques to operate IT systems

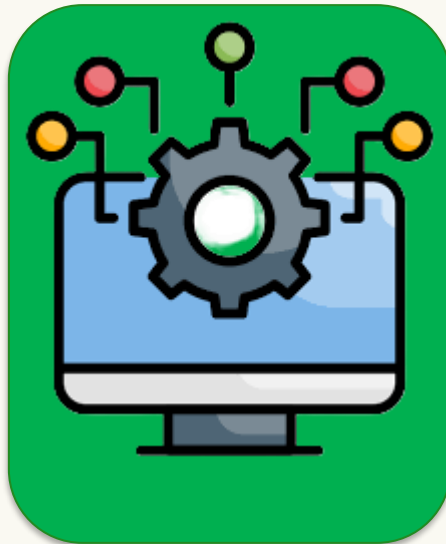
Key Vocabulary
IT system
Storage
Backup
Cybersecurity
Troubleshooting



TERM 2

Topic: IT User Fundamentals.
Skills: Demonstrate the selection and use of suitable techniques to operate IT systems

Key Vocabulary:
Software
Hardware
File Path
Encryption
Access Rights



TERM 3

Topic: Using the internet.
Skills: Make effective use of a connection method and intermediate internet software tools

Key Vocabulary:
Wifi
Browser
URL
Search engine
Settings



TERM 4

Topic: Using the internet
Skills: Be able to set up an internet connection to meet a variety of user needs

Key Vocabulary:
Bandwidth
Navigation
Keyword
Hyperlink
Two-factor authentication



TERM 5

Topic: IT communication Fundamentals.
Skills: To use appropriate IT tools to find and evaluate information and send and receive message

Key Vocabulary:
Information Literacy
Search Techniques
Credibility
Data Evaluation
Digital
Communication



TERM 6

Topic: Multimedia Software
Skills: To use a range of multimedia tools to produce publications

Key Vocabulary
Planning and Storyboarding
Content Integration
Multimedia Editing
Format and Design



CURRICULUM ROAD MAP – Options pathway- BTEC level 2 IT Users

YEAR 11

TERM 1

Topic: Improving Productivity
Skills: To plan and review their use of commonly use IT tools for routine activities

Key Vocabulary
IT Planning
Software Selection
Efficiency
Task Management
Evaluation and Review



TERM 2

Topic: Improving Productivity
Skills: To plan and review their use of commonly used IT tools for activities that are non-routine or unfamiliar

Key Vocabulary
Productivity
Software
Evaluation
Compatibility
Optimisation



TERM 3

Topic: Project Integration
Skills: To apply all units in the project to form a synoptic task

Key Vocabulary
Integration
Application
Planning
Evaluation
Reflection



TERM 4

Topic: Catch Up
Skills: To complete evidence and improve previously worked on pieces of work

Key Vocabulary
Review
Amend
Evidence
Progress
Refine



TERM 5

Topic: Final Portfolio

Key Vocabulary
Compilation
Organisation
Evaluation
Progression
Professionalism



TERM 6

Scheduled Exams
Preparation for Post 16