#ICT & COMPUTING
#KEY STAGE 3 CURRICULUM MAP

Key Stage 4 Pathways:
GCSE Computer Science (OCR)
CNAT Creative iMedia (OCR)

Creative iMedia | OPTIONS | Computing

9

9.6 Multimedia
- Working to a brief
- Use of keyframes
- Interactive media
- Export formats

9.5 Python: Next Steps
- Iteration (for/while)
- Input validation
- Lists (arrays)
- Sub-programs

9.4 Cyber Security
- Types of threat
- Preventing vulnerabilities
- Social engineering
- Network policies

9.3 Bitmap Graphics
- Bitmap vs vector graphics
- Resolution & bit depth
- Photo editing tools
- Selection; layers; filter effects
- Export formats/properties

9.2 Python: Introduction
- Python syntax
- Input & output
- Variables/data types
- Arithmetic & logic
- Selection problems

INPUT
OUTPUT

9.1 Pre-Production Skills
- Mind maps
- Mood boards
- Visualisation diagrams
- Storyboards
- Scripts

8

8.5 Scratch: Advanced (Extended Project)
- Computer game planning, design, programming & testing
- Holistic unit: draws & builds upon skills from other units
- Working to a brief
- Game flow diagrams
- Sprite design
- Programming
- Testing
- Refinement

8.4 Networks
- The Internet
- Connectivity
- Topologies
- Client-server networks
- Encryption

8.3 Text-based Programming
- MS Small Basic inc. Turtle
- Identify & correct syntax errors
- Use of programming constructs
- Naming and using variables

8.2 Website Design
- Pre-production planning
- Use of master page
- House style (colours/fonts)
- Hyperlinks (internal/external)
- Rollovers/multimedia assets

8.1 Algorithms
- Sequencing
- Flowchart symbols
- Selection in flowcharts
- Computational thinking

7

7.4 Understanding Computers
- Input-Process-Output
- CPU - FDE Cycle
- Storage (Pri./Sec.)
- Binary

7.5 Using Media
- Search techniques
- Evaluating sources
- Creative Commons
- Audience and Purpose

7.6 Scratch: Foundation
- Sequencing blocks
- Selection blocks
- Iteration/Repetition
- Naming and using variables

7.3 Vector Graphics
- Using shapes and lines
- Fill and stroke properties
- Modifying shapes
- Editing nodes

7.2 Spreadsheet Modelling
- Introduction to spreadsheets
- Using formulae and functions
- Formatting
- Charting data

7.1 Impact of Technology
- Introduction to CHS network
- Use of school email
- Working collaboratively
- E-Safety and cyberbullying

Computing Unit
ICT Unit

WELCOME TO CHS
#CONSTRUCTIVE FEEDBACK