

S2 COMPUTING SCIENCE COURSE OUTLINE

LOGIN & USING THE NETWORK

- File management – tidy out files from S1
- Login to glow
- Revision of GLOW main features
 - Launch pad
 - Office 365
 - OneDrive
 - Sharing Files
 - E-mail
- Add teacher to GLOW contacts

CYBER RESILIENCE & INTERNET SAFETY

- Computer Crimes –
 - Phishing
 - Viruses
 - Extortion/Ransomware
 - Identity Theft
- Computer Laws
 - DPA
 - CMA
 - RIPA
 - Copyright
 - Health & Safety
 - Freedom of Information
- Prevention
 - Encryption
 - Firewalls
 - Security suites

INTERNET & WEB DESIGN

- Internet
 - URL
 - Hyperlinks
 - User interface
 - Current information systems – Facebook, twitter, eBay
- HTML
- Tags
 - Headings
 - Formatting
 - Image
 - Hyperlink

PROGRAMMING

- Identify inputs, process & outputs for real life problems
- Create programs to solve real life problems
- Use Code.org & Scratch to solve problems involving
 - Input/output
 - Selection
 - Repetition
 - Logical operators
 - Mathematical operators
 - Variables
 - Arrays

COMPUTER SYSTEMS

- Types of computer systems
- Input, process, output
- Data representation
- File types and compression
- Computer networks

GRAPHICS

- Drawing Shapes
- Fill options
- Shape outline & effects
- Layers
- Cropping
- Grouping
- Transparency
- Buttons & rollovers

ANIMATION

- Drawing & shape tweens
- Symbols & motions
- KenBurns Effect
- Animation Banner
- Insurance Advert

MICROSOFT SWAY

- Create publication
- Add cards
- Add text
- Add images
- Use design template
- Share with teacher