

Year 8 Computing

Topic 6: Python Programming

Sequencing - Selection - For loops - While loops - Arrays

Topic 5: Mobile app development

Decomposition - Block based programming - Sequence - Selection - App Project

Topic 4: Representation: Binary

Numbers - Hexadecimals - Characters - Images - Sound

Topic 3: Developing for the Web

HTML, CSS, Search engines, Web design - Project

Topic 2: Vector Graphics

Drawing shapes - paths & manipulating individual objects.

Topic 1: Computer Systems

CPU, Hardware - Software, - Logical operators - Artificial Intelligence.



Knowledge	Attributes / Character	Skills	Experiences
<ul style="list-style-type: none"> ● Computer Systems ● Media - Vector Graphics ● Developing for the web ● Representation - Binary ● Mobile app development ● Introduction to Python Programming 	<ul style="list-style-type: none"> ● Confidence <ul style="list-style-type: none"> ○ Praise ○ Oracy - Turn and Talk, Think, Pair, Share ● Organisation <ul style="list-style-type: none"> ○ Workbooks/folder checks ○ Regular use of Google classroom ● Resilience <ul style="list-style-type: none"> ○ Developing problem solving skills ● Empathy <ul style="list-style-type: none"> ○ Working in collaboration with others ○ Peer assessment 	<ul style="list-style-type: none"> ● Computational thinking ● Problem solving ● Numeracy ● Literacy <ul style="list-style-type: none"> ○ Use of key terminology in written and oral work ● Creativity ● Planning ● Organisation ● Design for purpose ● Communication for various audiences 	<ul style="list-style-type: none"> ● Opportunities to develop programming skills ● Research careers in Cyber security ● Visit to Cyber First events ● Outside speakers from Bletchley Park ● Coding club ● iDEA award