

Year 9 Computing

Topic 6: Physical Computing
Input and Output - Connections - Project

Topic 5: Media Animations
Characters, Stage, Voice over -
Animation - Project

Topic 4: Cyber Security
Your data - Social engineering - Script
kiddies - Rise of bots - Under attack

Topic 3: Data Representation
Numbers - Hexadecimals - Characters -
Images - Sound

Topic 2: Data Science
Delving into data science - global data -
Data for action - Data cleansing

Topic 1: Python Programming
Sequencing - Selection - For loops - While
loops - Arrays



Knowledge	Attributes / Character	Skills	Experiences
<ul style="list-style-type: none"> ● Python programming ● Data science ● Data representation ● Cyber security ● Media animations ● Physical computing 	<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