

Year 11 Computer Science

Revision

Topic 5: Programming languages and Integrated Development Environments
Languages - IDE

Topic 4 - Boolean logic
Logic diagrams - boolean operators

Topic 3 - Producing robust programs
Defensive design - Testing

Topic 2: Programming fundamentals
Programming fundamentals - data types
- programming techniques

Topic 1: Algorithms
Computational thinking - designing, creating and refining algorithms - searching and sorting algorithms



Knowledge	Attributes / Character	Skills	Experiences
<p>2.1 Algorithms</p> <ul style="list-style-type: none"> • 2.2 Programming fundamentals • 2.3 Producing robust programs • 2.4 Boolean logic • 2.5 Programming languages and Integrated Development Environments 	<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 • Mathematics relevant to computer science • Literacy <ul style="list-style-type: none"> ○ Use of key terminology in technical writing • Creativity • Planning • Attention to detail • Organisation • Design for purpose • Communication for various audiences • Time management 	<ul style="list-style-type: none"> • IT specialist • Cisco • Opportunities to develop programming skills • Research careers in Cyber security • Visit companies such as Amazon and Microsoft