CSSA Computing Learning Journey

CHILDWALL SPORTS & SCIENCE ACADEMY
LYDIATE LEARNING TRUST

Where to next?

University Courses:
- Information Technology
- Computer Science

Careers

Software/Games/Web Developer
Network Engineer
Robotics
Artificial Intelligence
Programmer

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Unit 9 Product Development | Unit 8 Project Development | Unit 6 Application Design | Unit 2 Global Information

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Unit 6 Application Design | Unit 8 Project Development | Unit 9 Product Development | Unit 1 Fundamentals of IT

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Testing & Defensive Design | Programming Languages | Legislation | System Software | Algorithms

Component 2 Collecting, Presenting & Interpreting Data

Component 3 Effective Digital Working Practices

Component 3 Effective Digital Working Practices

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Computer Systems | Computational Thinking | Networks | Network Security

Boolean Logic

Data Representation

Programming Fundamentals

GCSE Computer Science

BTEC Digital IT

Component 1 Exploring User Interface Design Principles & Project Planning Techniques

- Careers in IT and CS

IT & the World of Work

Artificial Intelligence
- AI in industry
- Advances in AI

Cyber Security
- Threats to networks
- Preventing vulnerabilities

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Data Representation | Programming in Python | Problem Solving

- Images
- Sound
- Compression

- Functions
- Procedures
- File handling

- Computational thinking
- Psuedocode

- Working practices
- Cloud computing

- Variables
- Sequence
- Selection
- iteration

- Inputting Data
- Queries
- Reports

- Converting binary, denary and hexadecimal

Impact of Technology | Introduction to Programming in Python | Databases | Data Representation

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Computational Thinking - Algorithms | Computer Systems | Web Development

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- Flowcharts
- Sequence
- Selection
- Iteration

- Input/Output/Storage
- Internal components
- System software

- LAN/WAN
- Network hardware
- Network performance

- Web design
- HTML

Networks

Graphics

- Using variables
- Sequence
- Selection
- Iteration

- Communicating respectfully
- Staying safe online

- Image editing tools
- Web graphics

Programming in Scratch | Modelling | Collaborative Online Learning

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- Inputting and formatting Data
- Formulas and functions
- Presenting data