THE JOURNEY OF LEARNING

Year 9 : Computer Science

Year 9 Autumn Term 1

- CPU Architect
- Graphics designer
- CPU: Von Neumann Architecture
- CPU: Components
- Memory & Storage
- High-level and low-level languages
- Storage Characteristics
- Ada Lovelace Day
- Little Man Computer
- Creative commons license
- Copyright: what is fair to use
- Create Poster

Year 9 Summer preparation

Year 9 Spring Term 1

- Computational Thinking/ Algorithms
- DIRT
- Assessment: Review of unit
- World Computer Literacy Day
- Boolean Expressions
- Completing logic circuits
- Truth tables (AND/OR/NOT)
- Introduction to Logic Gates AND/OR/NOT
- Bebras Challenge: 08/11 – 19/11
- Computational Thinking

Year 9 Autumn Term 2

- Linear Search
- Merge Sort
- Insertion Sort
- Black History month
- Binary Search
- Bubble Sort
- Safer Internet Day
- Formal Assessments Mid-Year Closed Book
- Ethics & cultural Computers and well-being
- Law
- Ambitions week
- Personal Data GDPR/DPA
- Legal Issues
- E-waste
- Environmental Issues
- DIRT
- Extended Write: ethical issues in computing

Year 9 Summer Term 1

- Lists and Tuples
- User defined functions
- File handling
- Iteration FOR loops WHILE loops
- Debugging
- Persuasive design
- Data Types
- Selection
- Algorithms
- Variables
- Programmer
- String manipulation

Year 9 Spring Term 2

- Assessment: Review of unit
- DIRT
- tkinter
- Data Analyst
- Programming project
- Digital Literacy: Data Storage
- SQL language introduction
- Forms and Queries
- Digital Literacy: Validation Reports
- Formal Assessment End of year Closed Book

Year 9 Summer Term 2

PSHE topics | Extended Write | Cultural Capital | Assessments | Careers | DIRT