



Subject:	Computer Science	Form:	4th Form
Teacher:	Evan Zampekis	Term:	Autumn 2026

Week	Week Beginning	Topic
1	7th September	Fundamentals of algorithms: Algorithms (flowcharts – pseudocode)
2	14th September	Programming recap: Python – IDLE – variables – operations
3	21st September	Programming: Boolean logic, Programming structures
4	28th September	Programming: Programming structures
5	5th October	Programming: Programming structures
6	12th October	Programming: Programming structures
7	19th October	Programming: Data structures
Autumn Half-Term (26th October to 30th October)		
8	2nd November	Programming: Data structures
9	9th November	Revision
10	16th November	Winter Exam week
11	23 November	Programming: String handling operations in python
12	30th November	Programming: Subroutines (procedures and functions)
13	7th December	Programming: Random number generation



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Week	Week Beginning	Topic
1	4th January	Programming: Structured programming,
2	11th January	Programming: Structured programming, Robust and secure programming (data validation, authentication, test data)
3	18th January	Programming: Programming languages – translators
4	25th January	Fundamentals of data representation: Numeric systems (decimal, binary, hexadecimal). Converting between number bases.
5	1st February	Fundamentals of data representation: Binary arithmetic, Character encoding.
6	8th February	Fundamentals of data representation: Representing images, sound
Spring Half-Term (15th February to 19th February)		
8	22nd February	Mini Test week
9	1st March	Fundamentals of data representation: Data compression
10	8th March	Fundamentals of data representation: Converting between number bases Programming: Putting it all together
11	15th March	Computer systems: Hardware and software, Boolean logic + logic circuits



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Week	Week Beginning	Topic
1	12 th April	Computer systems: Software classification, Systems architecture (CPU, memory, secondary storage, embedded systems)
2	19 th April	Computer systems: Systems architecture (CPU, memory, secondary storage, embedded systems)
3	26 th April	Databases & SQL: The concept of a database. The concept of a relational database Database concepts: table, record, field, primary key, foreign key.
4	3 rd May	Databases & SQL: The Structured query language (SQL)- SELECT, INSERT, UPDATE, DELETE statements
5	10 th May	Databases & SQL: Practise SQL
6	17 th May	Databases & SQL: Practise SQL / Revision
7	24 th May	Revision
Summer Half-Term (31st May to 4th June)		
8	7 th June	Summer Exam week
9	14 th June	Fundamentals of computer networks: Computer networks – types, Network protocols
10	21 st June	Fundamentals of computer networks: Computer networks – types, Network protocols
11	28 th June	Fundamentals of computer networks: Network security Programming: Putting it all together
12	5 th July	Fundamentals of computer networks: Computer networks – types, Network protocols