

St. John's Senior School



Subject: Computing

Form: 3rd

Teacher: Evan Zampekos

Term: Autumn 2024

WEEK	WEEK BEGINNING	TOPIC
1	3 rd September	Computer systems: Hardware and software.
2	9 th September	Computer systems: Systems architecture - CPU.
3	16 th September	Computer systems: Systems architecture - memory.
4	23 th September	Computer systems: Secondary storage.
5	30 th September	Computer systems: Software.
6	7 th October	MINI-TEST
7	14 th October	Fundamentals of data representation: Numeric systems - binary
8	21 st October	Fundamentals of data representation: Using binary. Units of information
HALF - TERM		
9	4 th November	Fundamentals of data representation: Converting from decimal to binary & from binary to decimal.
10	11 th November	END OF TERM EXAMINATIONS
11	18 th November	Fundamentals of data representation: Adding binary numbers.
12	25 th November	Fundamentals of data representation: Hexadecimal. Converting from binary to hexadecimal & from hexadecimal to binary.
13	2 th December	Fundamentals of data representation: Character encoding. ASCII and Unicode.

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14	9 th December	Fundamentals of data representation: Representing images.
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Term: Spring 2025

WEEK	WEEK BEGINNING	TOPIC
1	6 th January (Wednesday)	Fundamentals of algorithms: Computational thinking.
2	13 th January	Fundamentals of algorithms: Algorithms, description methods.
3	20 th January	Programming: Introduction to Python - IDLE. Variables and constants. Identifiers. Data types.
4	27 nd January	MINI- TEST
5	3 rd February	Programming: Arithmetic – Relational – Boolean operations.
6	10 th February	Programming: Programming constructs: sequence
HALF - TERM		
7	24 th February	Programming: Programming constructs: sequence, selection. Boolean logic.
8	3 rd March	Programming: Programming constructs: iteration.
9	10 th March	Programming: Drawing with turtle-sequence
10	17 th March	Programming: Drawing with turtle-selection
11	24 th March	Programming: Drawing with turtle-iteration
12	31 st March	Programming: Drawing with turtle-putting it all together

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Term: Summer 2025

WEEK	WEEK BEGINNING	TOPIC
1	28 th April	Programming: Functions
2	6 th May (Tuesday)	Programming: Drawing with turtle-functions
3	12 th May	Programming: Putting it all together.
4	19 th May	Programming: Putting it all together.
HALF - TERM		
5	2 nd June	END OF TERM EXAMINATIONS
6	9 th June	Fundamentals of networks: Why network? Types and layouts.
7	16 th June	Fundamentals of networks: Network hardware.
8	23 rd June	Fundamentals of networks: Network setup.
9	30 th June	Network security.
10	7 th July	Revision quiz.