

St John's Senior School



Subject: Computer Science
Teacher: Mr. Zampekos

Form: 3rd
Term: Autumn

WEEK	WEEK BEGINNING	TOPIC
1	2 nd September	Fundamentals of algorithms: Introduction to algorithms.
2	9 th September	Fundamentals of algorithms: Algorithms.
3	16 th September	Programming: Introduction to Python - IDLE.
4	23 rd September	Programming: Arithmetic – Relational – Boolean operations.
5	30 st September	Programming: Variables - Data types.
6	7 th October	MINI - TEST
7	14 th October	Programming: Programming structures: sequence.
HALF – TERM		
8	28 th October	Programming: Programming structures: sequence.
9	4 th November	Programming: Boolean logic, Programming structures: selection.
10	11 th November	Programming: Programming structures: selection.
11	18 th November	Programming: Programming structures: iteration.
12	25 th November	END OF TERM EXAM
13	2 nd December	Programming: Programming structures: iteration.
14	9 th December	Programming: Programming structures: iteration.

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Term: Spring

WEEK	WEEK BEGINNING	TOPIC
1	6 th January	Programming: Programming structures: putting it all together.
2	13 th January	Programming: Programming structures: putting it all together.
3	20 th January	Programming: Functions.
4	27 th January	Programming: Functions.
5	3 rd February	MINI - TEST
6	10 th February	Programming: Data structures – python's lists.
HALF – TERM		
7	24 th February	Programming: Data structures – python's lists.
8	2 nd March	Fundamentals of data representation: Numeric systems - binary
9	9 th March	Fundamentals of data representation: Using binary. Units of information
10	16 th March	Fundamentals of data representation: Converting from decimal to binary.
11	23 rd March	Fundamentals of data representation: Converting from binary to decimal.

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Term: Summer

WEEK	WEEK BEGINNING	TOPIC
1	20 th April	Fundamentals of data representation: Adding binary numbers.
2	27 th April	Fundamentals of data representation: Character encoding.
3	4 th May	Fundamentals of data representation: Representing images.
4	11 th May	Computer systems: Systems architecture - CPU.
5	18 th May	Computer systems: Systems architecture - memory.
HALF – TERM		
6	1 st June	Computer systems: Secondary storage.
7	8 th June	END OF TERM EXAM
8	15 th June	Fundamentals of computer networks: Computer networks – types.
9	22 nd June	Fundamentals of computer networks: Network protocols.
10	29 st June	Fundamentals of computer networks: Network security.
11	6 th July	Cyber Security