

# St. John's Senior School



**Subject: Computing**

**Form: 3<sup>rd</sup>**

**Teacher: Evan Zampekos**

**Term: Autumn 2023**

<b>WEEK</b>	<b>WEEK BEGINNING</b>	<b>TOPIC</b>
1	4 <sup>th</sup> September	Computer systems: Hardware and software.
2	11 <sup>th</sup> September	Computer systems: Systems architecture - CPU.
3	18 <sup>th</sup> September	Computer systems: Systems architecture - memory.
4	25 <sup>th</sup> September	Computer systems: Secondary storage.
5	2 <sup>nd</sup> October	<b>MINI-TEST</b>
6	9 <sup>th</sup> October	Computer systems: Software.
7	16 <sup>th</sup> October	Fundamentals of data representation: Numeric systems - binary
<b>HALF - TERM</b>		
8	30 <sup>th</sup> October	Fundamentals of data representation: Using binary. Units of information
9	6 <sup>th</sup> November	Fundamentals of data representation: Converting from decimal to binary & from binary to decimal.
10	13 <sup>th</sup> November	<b>END OF TERM EXAMINATIONS</b>
11	20 <sup>th</sup> November	Fundamentals of data representation: Adding binary numbers.
12	27 <sup>th</sup> November	Fundamentals of data representation: Hexadecimal. Converting from binary to hexadecimal & from hexadecimal to binary.
13	4 <sup>th</sup> December	Fundamentals of data representation: Character encoding. ASCII and Unicode.

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**Term: Spring 2024**

<b>WEEK</b>	<b>WEEK BEGINNING</b>	<b>TOPIC</b>
1	3 <sup>rd</sup> January (Wednesday)	Fundamentals of data representation: Representing images.
2	8 <sup>th</sup> January	Fundamentals of algorithms: Computational thinking.
3	15 <sup>th</sup> January	Fundamentals of algorithms: Algorithms, description methods.
4	22 <sup>nd</sup> January	<b>MINI- TEST</b>
5	29 <sup>th</sup> January	Programming: Introduction to Python - IDLE. Variables and constants. Identifiers. Data types.
6	5 <sup>th</sup> February	Programming: Arithmetic – Relational – Boolean operations.
<b>HALF - TERM</b>		
7	19 <sup>th</sup> February	Programming: Programming constructs: sequence
8	26 <sup>th</sup> February	Programming: Programming constructs: sequence, selection. Boolean logic.
9	4 <sup>th</sup> March	Programming: Programming constructs: iteration.
10	11 <sup>th</sup> March	Programming: Drawing with turtle-sequence
11	18 <sup>th</sup> March	Programming: Drawing with turtle-selection

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**Term: Summer 2024**

<b>WEEK</b>	<b>WEEK BEGINNING</b>	<b>TOPIC</b>
1	16 <sup>th</sup> April (Tuesday)	Programming: Drawing with turtle-iteration
2	22 <sup>nd</sup> April	Programming: Drawing with turtle-putting it all together
3	29 <sup>th</sup> April	Programming: Functions
4	7 <sup>th</sup> May	Programming: Drawing with turtle-functions
5	13 <sup>th</sup> May	Programming: Putting it all together.
6	20 <sup>th</sup> May	Fundamentals of networks: Why network? Types and layouts.
<b>HALF - TERM</b>		
7	3 <sup>rd</sup> June	<b>END OF TERM EXAMINATIONS</b>
8	10 <sup>th</sup> June	Fundamentals of networks: Network hardware.
9	17 <sup>th</sup> June	Fundamentals of networks: Network setup.
10	24 <sup>th</sup> June	Network security.
11	1 <sup>st</sup> July	Revision quiz.