

# St John's Senior School



**Subject: Computing**

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

**Teacher: Evan Zampekos**

**Term: Autumn**

WEEK	WEEK BEGINNING	TOPIC
1	6 <sup>th</sup> September	Computer systems: Hardware and software.
2	13 <sup>th</sup> September	Computer systems: Systems architecture - CPU.
3	20 <sup>th</sup> September	Computer systems: Systems architecture - memory.
4	27 <sup>th</sup> September	Computer systems: Secondary storage.
5	4 <sup>th</sup> October	Computer systems: Software.
6	11 <sup>th</sup> October	<b>MINI TEST WEEK</b>
7	18 <sup>th</sup> October	Fundamentals of data representation: Numeric systems - binary
<b>HALF - TERM</b>		
8	1 <sup>st</sup> November	Fundamentals of data representation: Using binary. Units of information
9	8 <sup>th</sup> November	Fundamentals of data representation: Converting from decimal to binary & from binary to decimal.
10	15 <sup>th</sup> November	<b>END OF TERM EXAM</b>
11	22 <sup>nd</sup> November	Fundamentals of data representation: Adding binary numbers.
12	29 <sup>th</sup> December	Fundamentals of data representation: Hexadecimal. Converting from binary to hexadecimal & from hexadecimal to binary.
13	6 <sup>th</sup> December	Fundamentals of data representation: Character encoding. ASCII and Unicode.

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**Term: Spring**

WEEK	WEEK BEGINNING	TOPIC
1	4 <sup>th</sup> January	Fundamentals of data representation: Representing images.
2	10 <sup>th</sup> January	Fundamentals of algorithms: Computational thinking.
3	17 <sup>th</sup> January	Fundamentals of algorithms: Algorithms, description methods.
4	24 <sup>th</sup> January	Programming: Introduction to Python - IDLE. Variables and constants. Identifiers. Data types.
5	31 <sup>st</sup> January	<b>MINI TEST WEEK</b>
6	7 <sup>th</sup> February	Programming: Arithmetic – Relational – Boolean operations.
<b>HALF - TERM</b>		
7	21 <sup>st</sup> February	Programming: Programming constructs: sequence
8	28 <sup>th</sup> February	Programming: Programming constructs: sequence, selection. Boolean logic.
9	7 <sup>th</sup> March	Programming: Programming constructs: iteration.
10	14 <sup>th</sup> March	Programming: Drawing with turtle-sequence
11	21 <sup>st</sup> March	Programming: Drawing with turtle-selection
12	28 <sup>th</sup> March	Programming: Drawing with turtle-iteration

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**Term: Summer**

WEEK	WEEK BEGINNING	TOPIC
1	25 <sup>th</sup> April	Programming: Drawing with turtle-putting it all together
2	2 <sup>nd</sup> May	Programming: Functions
3	9 <sup>th</sup> May	Programming: Drawing with turtle-functions
4	16 <sup>th</sup> May	Programming: Putting it all together.
5	23 <sup>rd</sup> May	Fundamentals of networks: Why network? Types and layouts.
<b>HALF - TERM</b>		
6	6 <sup>th</sup> June	Fundamentals of networks: Network hardware.
7	13 <sup>th</sup> June	Fundamentals of networks: Network security.
8	20 <sup>th</sup> June	<b>END OF TERM EXAMS</b>
9	27 <sup>th</sup> June	Cyber security.
10	4 <sup>th</sup> July	Revision quiz.