St. John's Senior School

Subject: Computing   **Form: 4th**
Teacher: Evan Zampekos   **Term: Autumn 2025**

WEEK	WEEK BEGINNING	TOPIC
1	8th September	Programming: Algorithm – variables - data types – arithmetic operations – pseudocode -flowcharts
2	15th September	Programming: Selection – relational operators - Boolean logic
3	22nd September	Programming: Iteration – string manipulation
4	29th September	Programming: Authentication - validation
5	6th October	Programming: Nested structures – Data structures
6	13th October	Programming: Data structures – algorithm efficiency – sorting & searching algorithms
7	20th October	Programming: Data structures – algorithm efficiency – sorting & searching algorithms
		HALF - TERM
8	3rd November	Programming: Decomposition – subroutines - parameters
9	10th November	Programming: Subroutines - parameters
10	17th November	**END OF TERM EXAMINATIONS**
11	24th November	Programming: Iteration – constants – 2D arrays
12	1st December	Programming: Iteration – constants – 2D arrays
13	8th December	Programming: Iteration – constants – 2D arrays

St. John's Senior School

Subject: Computing **Form: 4th**
Teacher: Evan Zampekos **Term: Spring 2026**

WEEK	WEEK BEGINNING	TOPIC
1	6th January	Programming: Records – authentication routines
2	12th January	Programming: Iteration – constants – 2D arrays
3	19th January	Programming: Systematic Problem solving – purpose of algorithms – trace tables
4	26th January	**MINI TEST**
5	2nd February	Programming: Systematic Problem solving – purpose of algorithms – trace tables
6	9th February	Fundamentals of data representation: Numeric systems (decimal, binary, hexadecimal). Converting between number bases.
HALF - TERM		
7	23rd February	Fundamentals of data representation: Binary arithmetic, Character encoding
8	2nd March	Fundamentals of data representation: Representing images, sound
9	9th March	Fundamentals of data representation: Data compression
10	16th March	Computer systems: Hardware and software, Boolean logic + logic circuits
11	23rd March	Computer systems: Software classification, Systems architecture (CPU, memory, secondary storage, embedded systems)

St. John's Senior School

Subject: Computing
Teacher: Evan Zampekos

Form: 4th
Term: Summer 2026

WEEK	WEEK BEGINNING	TOPIC
1	20th April	Fundamentals of computer networks: Computer networks – types, Network protocols
2	27th April	Fundamentals of computer networks: Computer networks – types, Network protocols
3	5th May (Tuesday)	Fundamentals of computer networks: Computer networks – types, Network protocols
4	11th May	Fundamentals of computer networks: Network security Programming: Putting it all together
5	18th May	Revision
	HALF - TERM	
6	1st June	**END OF TERM EXAMINATIONS**
7	8th June	Fundamentals of cyber security: Security threats, Social Engineering, Malicious Code
8	15th June	The concept of a database. The concept of a relational database Database concepts: table, record, field, primary key, foreign key.
9	22nd June	Structured query language (SQL): SELECT, INSERT, UPDATE, DELETE statements
10	29th June	Databases: Putting it all together
11	6th July	Revision