St John's Senior School

Subject: Computer Science **Form: 5th**
Teacher: Mr. Zampekos **Term: Autumn**

WEEK	WEEK BEGINNING	TOPIC
1	2nd September	Fundamentals of computer networks: Computer networks – types, Network protocols
2	9th September	Fundamentals of computer networks: Network security Programming recap: Python – IDLE – variables – operations- Boolean logic
3	16th September	Fundamentals of computer networks: TCP/IP model Programming recap: Programming structures – Data structures – Subroutines (procedures and functions) – Random number generation
4	23rd September	Fundamentals of cyber security: Security threats, Social engineering, Malicious code Programming recap: Programming languages – translators
5	30th September	Programming- Structured programming recap: File handling, Robust and secure programming (data validation, authentication, test data)
6	7th October	**MINI – TEST**
7	14th October	Aspects of software development: Design, implementation, testing, evaluation
		HALF – TERM
8	28th October	Fundamentals of data representation recap: Numeric systems (decimal, binary, hexadecimal). Converting between number bases
9	4th November	Fundamentals of data representation recap: Binary arithmetic, Character encoding, Representing images-sound
10	11th November	Computer systems recap: Hardware and software, Boolean logic + logic circuits
11	18th November	NEA
12	25th November	NEA
13	2nd December	NEA
14	9th December	NEA

St John's Senior School

Subject: Computer Science **Form: 5**
Teacher: Mr Zampekos **Term: Spring**

WEEK	WEEK BEGINNING	TOPIC
1	6th January	**Mock Exam**
2	13th January	NEA
3	20st January	NEA
4	27th January	Computer systems recap: Software classification, Systems architecture (CPU, memory, secondary storage, embedded systems)
5	3rd February	**MINI - TEST**
6	10th February	Computer systems recap: Hardware and software, Boolean logic + logic circuits
		HALF – TERM
7	24th February	Computer systems: Software classification, Systems architecture (CPU, memory, secondary storage, embedded systems)
8	2nd March	Computer systems recap: Systems architecture (CPU, memory, secondary storage, embedded systems)
9	9th March	Fundamentals of computer networks recap: Computer networks – types, Network protocols, Network security
10	16th March	Fundamentals of cyber security recap: TCP/IP model , Security threats, Social engineering, Malicious code How to detect and prevent cyber security threats
11	23rd March	Ethical, legal and environmental impacts & issues of privacy recap: Ethical, legal and environmental impacts and risks of digital technology on society. Data privacy

Subject: Computer Science **Form: 5th**
Teacher: Mr. Zampekos **Term: Summer**

WEEK	WEEK BEGINNING	TOPIC
1	20th April	Exam Revision / past papers
2	27th April	Exam Revision / past papers
3	4th May	Exam Revision / past papers
4	11th May	GCSE EXAMS
5	18th May	GCSE EXAMS
		HALF – TERM
6	1st June	GCSE EXAMS
7	8th June	GCSE EXAMS
8	15th June	GCSE EXAMS
9	22nd June	-
10	29th June	-
11	6th July	-