GRADE 11 COMPUTER STUDIES RECORDS OF WORK 2027

Terms 1, 2 and 3 | Ministry of Education calendar 2027 (Senior School) | 6 lessons a week

Teacher's name _____ School _____

Class / stream _____ TSC number _____

TERM 1

Wk	Dates	Strand / sub-strand	Work covered	Reflection / remarks	Sign
1	4 Jan - 8 Jan (6 lessons)	**1.0 Foundation of Computer Studies** - 1.1 Data Representation	1. Why computers use binary: the bit 2. Units of data: bit, nibble, byte and word 3. How units affect file size, storage and speed 4. Representing text and images 5. Representing audio and video 6. Number systems: radix and positional value		
2	11 Jan - 15 Jan (6 lessons)	**1.0 Foundation of Computer Studies** - 1.1 Data Representation	1. Real-world applications of number systems 2. Converting decimal to binary 3. Converting binary to decimal 4. Converting between decimal and octal 5. Converting between decimal and hexadecimal 6. Converting between binary and octal		
3	18 Jan - 22 Jan (6 lessons)	**1.0 Foundation of Computer Studies** - 1.1 Data Representation	1. Converting between binary and hexadecimal 2. Converting between octal and hexadecimal 3. Writing a program to convert number systems 4. Coding schemes: ASCII 5. Coding schemes: EBCDIC and BCD 6. Group project: a text-based communication system		
4	25 Jan - 29 Jan (6 lessons)	**1.0 Foundation of Computer Studies** - 1.2 Binary Arithmetic Operations	1. Rules of binary addition 2. Adding unsigned binary numbers 3. Direct binary subtraction 4. Unsigned and signed numbers: signed magnitude 5. One's complement representation 6. Two's complement representation		
5	1 Feb - 5 Feb (6 lessons)	**1.0 Foundation of Computer Studies** - 1.2 Binary Arithmetic Operations	1. Comparing signed number methods 2. Subtraction using one's complement 3. Subtraction using two's complement 4. Adding signed numbers and overflow 5. Binary arithmetic in the computer 6. Sensitising peers and review of binary arithmetic		