



Trimester Planner

Term one for 2017/2018

Computer Science

Grade 10 General / Advanced

Week No	Period	Chapter	Lesson	Pages
1	1 & 2	N/A		N/A
2	1 & 2	Introduction to networking	<ul style="list-style-type: none">- Clients and servers- Network paths	01-45
3	1 & 2	Networks in our daily life	<ul style="list-style-type: none">- Networking components- Address assignment- Network topologies and representations- Cabling and media	50-83
4	1 & 2	Communication on a local network	<ul style="list-style-type: none">- Hardware- Principles of communication	84-107
5	1 & 2		<ul style="list-style-type: none">- Packets and encapsulation- Hierarchical design	108-129
6	1 & 2		<ul style="list-style-type: none">- Dividing a local network	129-149
7	1 & 2	IPv4 Address and subnet masks	<ul style="list-style-type: none">- Network and hosts- Broadcast and multicast transmission- DHCP- IPv6	150-179
8	1 & 2	Providing network services	<ul style="list-style-type: none">- Clients and servers- Transport layer ports	185-193
9	1 & 2		<ul style="list-style-type: none">- Common internet services	194-201
10	1 & 2	Building a home network	<ul style="list-style-type: none">- Components of a home network- Internet port- Wi-Fi	207
11	1 & 2	N/A		N/A
12	1 & 2	N/A		N/A

Grade 11 General / Advanced

Week No	Period	Chapter	Lesson	Pages
1	1 & 2	N/A	- N/A	N/A
2	1 & 2	What is the internet of things	- Explain the Internet of things - Industry 4.0 - What makes the Internet of Things	1-29
3	1 & 2	The internet and networks	- Common types of networks - Network topologies - Physical and logical addresses	35-59
4	1 & 2		- DHCP servers	60-69
5	1 & 2	Connecting the Unconnected & Control Systems	- Control Systems - IoT Process Flow	72-89
6	1 & 2	Theory of Computer Science: Hardware	- Input Devices - Sensors - Output Devices - Networking Hardware	89-129
7	1 & 2		- Network Media - Hardware, Wiring and Simulation	131--160
8	1 & 2	Theory of Computer Science: Converting Numbers	- Binary Systems and Hexadecimal - Converting from binary to denary - Converting from denary to binary - Computer Memory Sizes - Hexadecimal System	161-187
9	1 & 2		- Converting from binary to hexadecimal	189-198
10	1 & 2		- Converting from hexadecimal to binary - Converting from denary to hexadecimal	198-204
11	1 & 2	N/A	- N/A	N/A
12	1 & 2	N/A	- N/A	N/A

Grade 12 General / Advanced

Week No	Period	Chapter	Lesson	Pages
1	1 & 2	N/A	- N/A	N/A
2	1 & 2	Binary Systems and Hexadecimal	- Binary Systems and Hexadecimal - Converting from binary to denary - Converting from denary to binary - Computer Memory Sizes and Registers	1-25
3	1 & 2		- Hexadecimal System - Converting from binary to hexadecimal - Converting from hexadecimal to denary - Hexadecimal and Media Access Control (MAC)	26-41
4	1 & 2	Theory of Computer Science: Hardware	- Theory of Computer Science: Hardware - Input Devices - Sensors - Output Devices	42-74
5	1 & 2		Routing and Switching	- Networking Hardware - Network Media
6	1 & 2	Dynamic Host Configuration Protocol (DHCP)	- Routing and Switching - Common Types of Network - Network Topologies - IP addresses	106-129
7	1 & 2	Routing Concepts	- Networking Diagrams - Communication Protocols - TCP IP / OSI Model - Unit 4 - Dynamic Host Configuration Protocol (DHCP) - DHCPv4 - DHCP Lease Renewal	130-173
8	1 & 2		- Routing Concepts - Console Access	176-194
9	1 & 2		- Devices LEDs - Routing Decisions	195-201
10	1 & 2	N/A	- N/A	N/A
11	1 & 2	N/A	- N/A	N/A
12	1 & 2	N/A	- N/A	N/A

