Lesson Plan - Theory

Year 10 – ICT (Week 3) – 2021 -2022

Subject	Information and Communication Technology
Class/ Section	Year 10 A-F
Week	12th September to 16th September
Work send to students by	Google classroom
Total number of lessons per week	2
Unit/Topic	Chapter 5 – Computer networks

Lessons 1,2 –Live Zoom lesson along with face to face instruction for students present on a particular day **Work will be assigned in google classroom which will be matched to the student's ability.**	<u>Specific Learning objectives</u> How devices are identified on a network. Students
	  - to be able to explain the differences between IP and MAC addresses
	  - to be able to understand the difference between IPv4 and IPv6
	  - to be able to Know use of machine address code (MAC) address.
	  - to be able to understand the difference between MAC address an device name.
	  - <u>Specific Intended Learning Outcomes</u> Students can
	  - state the differences between IP and MAC addresses.
	  - present differences of IPv4 and IPv6, Mac address and device name in variety of ways (table, group discussions, presentation, etc.)

Key terms	Network, , MAC, IP address, IPv4, IPv6, Device name, spoofing, static and dynamic IP address

Tasks	Lesson 1 Activity 1: Research the maximum number of addresses that can be provided by IPv6 Activity 2: Difference between static and dynamic IP address. Lesson 2 Activity 3: Check IP addresses MAC addresses and device name of your personal computer. Activity 4: What is spoofing? How spoofing would affect the restricting and allowing access to a network, identifying a device on a network, tracking a device and assign a static or fixed IP address.
Assessment Criteria/ Essential questions	Entry question to check students existing knowledge about the topic. Research work will help them finding more information about relevant context. Students will apply knowledge to find out what does static and dynamic IP addresses means. Research and find how spoofing would affects the ongoing traffic of a network ; encourage students to find out security methods used in different networks. . AO1 : Demonstrate knowledge and understanding of ICT AO2 : Apply knowledge, understanding and skills to produce ICT based solutions AO3 : Analyse, evaluate, make reasoned judgements and present conclusions
Resources	Pearson Edexcel International GCSE(9-1) ICT text book – pgs. 80-83 PowerPoint presentation https://www.youtube.com/watch?v=aor29pGhlFE https://answers.uillinois.edu/uic/page.php?id=94431 https://www.digitaltrends.com/computing/how-to-change-mac-address/

Subject	Information and Communication Technology
Class/ Section	Year 10 A-F
Week	12th September to 16th September
Work send to students by	Google classroom
Total number of lessons per week	2
Unit/Topic	Microsoft Power point

Lessons 1,2 –Live Zoom lesson along with face to face instruction for students present on a particular day
 	
Work will be assigned in google classroom which will be matched to the student's ability.
	Specific Intended Learning Objectives
	Students should be able to
	  - understand the purpose of and use a master slide
	  - use tools in presentation software to perform a variety of tasks
	  - understand the different layouts that a presentation can be printed as and the purpose of each.
	
	Students should be able to create a presentation using a master slide by adding placeholders, a footer, slide number, background and font enhancements
	
	Specific Intended Learning Outcomes
	
	Students can
	
	  - create a presentation using a master slide
	  - edit a master slide by adding placeholders, a footer, slide number, background and font enhancements
	  - create slides in a presentation by adding text, images

Key terms	Master slide, Place holder, Footer, Header, Slide Layout, Slide, slide show, slide views
Tasks	Activity questions and corresponding data files will be posted in Google Classroom. Activity 2

Assessment Criteria/ Essential questions	Entry question (sample activity) to check students existing knowledge about the MS power point software. . Students will be demonstrated on how to create and edit a master slide. Activity sheet will be given them to analyse and plan on appropriate slide layout and formatting required for the given scenario. AO2 : Apply knowledge, understanding and skills to produce ICT based solutions AO3 : Analyse, evaluate, make reasoned judgements and present conclusions
Resources	Pearson Edexcel International GCSE(9-1) ICT text book – pgs. 248- 254. Resource video links: https://www.youtube.com/watch?v=ZV1Bl6uf6Ic