Lesson Plan - Theory

Year 10 – ICT (Week 2) – 2021 -2022

Subject	Information and Communication Technology
Class/ Section	Year 10 A-F
Week	5th September to 9th 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.
	Specific Learning objectives
	
	Student should be able to understand the requirements of connecting to a network, including the internet.
	
	To be able to understand the purpose of connecting to a Network/Internet
	
	To be able to Know about network operating systems and how devices are identified on a network: device name, internet protocol (IP) and machine address code (MAC).
	
	Specific Intended Learning Outcomes
	
	Students can
	  - List the devices and software needed to connect to the internet and to a network.
	  - Identify the right protocol for the given application
	  - Draw and label a part of network, identifying and labelling the right devices.
	  - Compare the differences between standalone and network operating systems.

Key Vocabulary	Network, Protocol, MAC, IP address, Router, ISP, Server, Hub, Switch, Internet

Tasks	Lesson 1

Activity 1: What is a protocol?

Activity 2: Draw/design a network diagram to create a network which gives access to the internet.

Lesson 2

Activity 3: Check IP addresses of devices at home and label them in the diagram created under activity 2.

Activity 4: create a table to compare the features of a network operating system to a standalone operating system. |
| **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 protocol means and its applications

Research and find out devices needed in any LAN which they have been using ; School lab; home network, and present it in a diagram.

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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. 79-81

 PowerPoint presentation

https://edu.gcfglobal.org/en/computerbasics/connecting-to-the-internet/1/

https://www.youtube.com/watch?v=-L1eI4vECo4 |

Lesson Plan - Practical

Year 10 – ICT (Week 2) – 2021 -2022

Subject	Information and Communication Technology
Class/ Section	Year 10 A-F
Week	5th September to 9th 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 Vocabulary	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.
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