Hello Y12, we can't wait to meet you in September

To help you prepare for the **Single** KS5 course, see the preparation work below

You will be researching IT equipment and answering exam questions – keep these note super safe as they will form part of your revision for the first exam you will sit in January

Challenge 1

Research Multifunctional Devices & Fill out the following table in detail or create a presentation / research notes about them

Devices	Functions	Uses	Advantages & Disadvantages
Multifunctional Devices			
Personal Computers			
Mobile Devices			
Servers			
Entertainment Systems			
Digital Cameras			
Navigation Systems			
Data Capture & Collection Systems			
Communication Devices & Systems			

Challenge 2

researching into how digital technologies are used in Education, Retail, Organisations, Creative Industries, Personally and Socially. Fill in the following table with your findings or create a presentation / research notes about them

Sectors	Digital Devices Used	Function of Devices in Sector	Uses of Devices in Sector
Education			
Retail			
Organisations			
Creative			
Personal			
Social			

Challenge 3 - Exam Questions

1. Bobbies is a new small supermarket chain with 6 stores.

   State 2 different data capture & collection systems that might be used in supermarkets. [2]

2. Explain how the 2 data capture & collection systems might be used in the supermarkets and why they would benefit the business. [4]

3. Jerry works in the games industry and builds 3D games using a PC for use on tablets. He creates both the graphics and does all of the coding for the games.

   State two different input devices and two different output devices, explaining how they would be useful for jerry in the creation of video games. [8]

Challenge 4

Find out about each of the following Emerging Technologies including their uses and their Advantage and Disadvantages or create a presentation / research notes about them. **Keep a note of websites used as they might help for future coursework**

	What is it?	Uses	Advantages & Disadvantages
Artificial Intelligence			
Biometrics			
Robotics			
Virtual Reality			

Give some of the implications that Emerging Technology will have

Challenge 5

Exam Questions

1. What are some of the advantages and disadvantages of using robots in the manufacturing industry? [6]

2. What are some of the advantages of using biometrics for access to hardware such as mobile phones? [4]

Save your notes and be ready to share it with me in September! Good luck and have fun