THE LEARNING JOURNEY FOR COMPUTING

Unit / Block of work	Key Episodes / Questions	Additional Detail	Colur Code	Length of time.	Learner Attribute(s)
Chapter 1 Types of Components of a computer system	Can you explain the difference between Hardware & Software ? What are the main components of a computer system? Can you identify the role of an operating system? How many types of computers are there? How has ICT developed over the recent years?	Define hardware, giving examples, Define software, giving examples, Describe the difference between hardware and software		5 weeks	Thinkers
Chapter 2 Input & Output Devices	Can you identify Input devices & their uses ? how is direct data entry recorded and on which devices? Can you identify output devices and their uses?	Identify the following input devices: Keyboards, Numeric Keypads, Pointing Devices (including mouse, touch pad and tracker ball), Remote Controls, Joysticks, Touch Screens, Magnetic Stripe Readers, Chip Readers, PIN Pads, Scanners, Digital Cameras, Microphones, Sensors, Graphics Tablet, MICR, OMR, OCR, Barcode Readers, Video Cameras, Web Cams, Light Pens.		3 weeks	Communicaters
Chapter 3 - Storage devices and media	How does backing of data take place? Can you identify the types of access? What is a secondary storage media?	Describe the following common backing storage media and their associated devices: Fixed hard discs, Portable hard discs, Magnetic tapes, Optical backing storage media such as CDs and DVDs, CD ROM/DVD ROM, CD R/DVD R, CD RW/DVD RW, DVD RAM, Blu-ray, Solid state backing storage, Memory sticks/Pen drives, Flash memory cards		3 weeks	Risk Takers
Chapter 4 - networks and the effects of using them	Can you identify the different types of Networks ? What network issues can take place while communicating?	What are modem? What is the difference between IP & mac address ? How do computer use wifi on bluetooth to connect to networks.?		2 Weeks	Inquirer
Chapter 5 - The Effects of using ICT	What are the effects of using ICT on Employment? How has ICT effected work patterns? Which type of devices are microproccessor controlled ? What are the potential health problems related to the prolonged use of ICT equiment?	Explain what is meant by software copyright Describe the effects of information and communication technology on patterns of employment, including areas of work where there is increased unemployment? Describe the effects of microprocessor-controlled devices in the home, including their effects on leisure time, social interaction and the need to leave the home?		4 weeks	Thinker
Chapter 6 - ICT Applications	How many types of ICT applications can you identify? How does a school managment system use ICT? How are computers used in medicine and retail industry? What are the different types monitoring and tracking systems? Can you identify the difference between GPS and GIS?	Define EFT ? How many differnt types of booking system are there? How are computers used in the libarary? What is meant by biometric?		8 weeks	Risk Takers
Chapter 7 -Systems Life Cycle	How many types of analysis techniques are there? When does a product go in design phase? How is product developed and tested? Can you explain the implementation process? which documents needed to be pesented? How is the evaluation carried out?	What are the analysis techniques? When would a questionnaire be used? What is the difference direct change over and parallel?		3 weeks	Communicaters
Chapter 8 - Audiences	How have you kept the audience in mind in your design? What is meant by Legal , Moral , Ethical and cultural appreciation? What do you need to think about when communiating from email? How can we make sure the interenet is used effectively?	Which type of language & Colour should be use? What are the Copywright laws? How can we make sure that an email has privacy protection?		2 Weeks	