11E - **Explorer Curriculum** - *ICT/4 Lessons weekly*

Year	2025 – 2026 Autumn 1 Unit 1	2025 – 2026 Autumn 2 Unit 2	2025 – 2026 Spring 1 Unit 3	2025 – 2026 Spring 2 Unit 4	2025 – 2026 Summer 1 Unit 5	2025 – 2026 Summer 2 Unit 6
	Topic: **Unit 7 (3 credits) Producing Charts Using ICT** **Making a budget for your cinema.** **Suggested Key questions:** Can you enter data into a spreadsheet? Can you use a formula? Can you insert a bar chart? How do you display information in a chart? **Key skills and knowledge:** I know that different software applications can produce charts e.g. spreadsheets I can create pie charts, bar/column charts and line charts I can add labels and percentage values to identify pie chart sectors **TLM-** Need to populate a spreadsheet with data and labels. Use addition, subtractions, and average formulas. Insert and format charts.	**Topic:** **Coursework Catch-up +unit 8-** **Suggested Key Questions:** Have you completed a poster? Have you created a DVD cover? Have you recorded the DVD design and make process? Have you made a logo and have evidence and a process document? Have you made a spreadsheet showing the running of a cinema? With charts? And a logo? **Key Skills and Knowledge:** Understanding IT Understanding E-safety Understanding the purpose of IT Graphic Design Understanding how to create a spreadsheet Digital design	**Topic:** **Internet safety** **Suggested Key questions:** What safety issues do you people face when using the internet? Why is being safe online important? Why do people use social media? How are we influenced by online content? How do we create a secure password? **Key skills and knowledge:** Explore what cyber-bullying means & what to do when they encounter it. Will understand that if they put information online it leaves a digital footprint or "trail" & they need to manage it, so it is not hurtful or harmful. Discuss their understanding that not all websites are equally good sources of information.	**Topic:** Animation **Build up to using FLIPANIM to make a short animation of their own.** **Check Sheffield SEND Computing SOW – Unit 2H for ideas.** **Suggested Key Questions:** What is animation? What is good about animation? What films contain animation? How can it communicate to all ages? What is your story about? What makes it interesting? How have you added humor /emotion to your story? **Key skills and knowledge:** Play back to an audience and discuss their experience. Merge still images together to create an animation. Add text and images to a template document using an image & word bank.	**Topic:** **Introduction to 3D printing and Computer Aided Design.** **AQA UAS 105357 Introduction to 3D printing. AQA UAS 117412 Design and Technology: 3D Modelling.** **Suggested Key Questions:** What have you heard, or do you already know about 3D printing? What are the past and current uses of CAD? What are the past and current uses of 3D printing? What makes a good 3D print file- what preparations are needed? **Key Skills and knowledge:** Understanding what CAD is. Understanding how 3D printing works. Safe operation of a 3D printer. Understanding of the increasing uses of 3D printing. Using/searching online libraries using keywords or other requirements.	**Topic:** **Robotics and morality** **Suggested Key Questions:** What are your initial feelings about Robots? What are the advantages of using Robots? What are the disadvantages of using robots? What do you think of Alexa, advantages/disadvantages? What hand free technology are you aware of or used? Driverless cars, discuss Should robots have feelings? Why? What is AI? Chat GTP and other generators. **Key Skills and knowledge:** Can physically follow & give each other instructions to move around Explore outcomes when buttons are pressed in sequences on a robot Identify an algorithm to achieve a specific purpose Program and upload HEX programs to a BBC Micro:bit.

				Use a video or stills camera to record an activity.	Selecting the correct file types for the correct use. Creating simple 3D objects in CAD software. Planning and sending a 3D print.	Predict what will happen for a short sequence of instructions in a program.
Links to Gatsby Benchmarks:	3. Working in an office environment.		3. Working in an office environment. How to keep safe online.	3. Linking to careers. Animator Digital illustrator YouTube video creator	3. Linking to careers. CAD Engineering design	3. Linking to careers. Animator Programmer Engineer

The SEND Scheme of work can be found here:
Sheffield SEND Computing SoW