Week	43	44	45	46	
W/C Date	25-Jun	2-Jul	9-Jul	16-Jul	
Topic	Future and Emerging Technologies: Artificial Intelligence	Future and Emerging Technologies: Biometrics	Future and Emerging Technologies: Robotics	Future and Emerging Technologies: Virtual Reality	
Key Objectives	Identify what is meant by the term Artificial Intelligence Restate some uses of A.I. and influential people in the field. Explain what the Turing Test is	Describe what is meant by the term biometrics Identify a range of biometric measures Discuss the issues of companies keeping biometric data	Identify different uses of robots in society Construct your own robot Justify the skills your robot would have and how they could help society	Describe what Virtual Reality is Identify different types of VR technology Summarise key information about the use of VR technology and its future.	
Assessment		Star Mark Biometrics work	Star Mark robot designs		
Homework	SAM Future and Emerging Technologies		SAM Technology in Society		

Department **Year 8 grades 3-8 long term plan**

	Assessment weeks
	Moderation week
	Data Capture
	STAR marking
	Exit Poll

Key Skills to be Covered:

Digital Literacy: Word, PowerPoint, spreadsheets, email, folder structure, basic tools such as snipping tool

ICT: Websites, Spreadsheets, Graphics

Computer science: Programming, online safety

Week	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
W/C Date	03-Sep	10-Sep	17-Sep	24-Sep	01-Oct	08-Oct	15-Oct		29-Oct	05-Nov	12-Nov	19-Nov	26-Nov	03-Dec	10-Dec	17-Dec		
Topic	Dreamweaver: Folders and review	Dreamweaver: Table, page properties - setting up page templates	Dreamweaver: Gathering Assets / Information	Dreamweaver: Hyperlinking / buttons	Dreamweaver: Rollover Images	Dreamweaver: Advanced Skills	Practical Assessment		*Review of star marking and 2nd draft improvements*	micro:bit (blocks/mu): Sequence	micro:bit (blocks/mu): Iteration	micro:bit (blocks/mu): Inputs/Selection	ASSESSMENT BEBRAS (Date subject to change as national competition)	micro:bit (blocks/mu): Lists/Arrays	micro:bit (blocks/mu): Making a Simple Game (Dice / guess)	micro:bit (blocks/mu): Making a Simple Game (Dice / guess)		
Key Objectives	Compare a range of websites for good / bad points Demonstrate organisational skills in setting up accurate folder structures	Apply formatting to tables in Dreamweaver Demonstrate skills in Dreamweaver to set up Page Properties	Choose images and content appropriate for use in a website Demonstrate how to save assets correctly	Construct hyperlinks using Dreamweaver Build buttons for use in a webpage	Develop assets for use in rollovers Create rollover buttons in Dreamweaver	Modify webpages to include more advanced features	Demonstrate Dreamweaver skills in completing a practical assessment		*Review work identifying good areas and areas for improvement* *Improve work in response to feedback*	Describe what is meant by the term sequence Organise code into the correct sequence	Identify the 2 different types of iteration Demonstrate using iteration in programming	Explain what is meant by the term variable Construct valid IF arguments	Online problem solving assessment	Describe what a list is Demonstrate programming skills to create your own list	Combine a range of programming techniques Create a simple game for the micro:bit	Combine a range of programming techniques Create a simple game for the micro:bit		
Assessment				Star Mark Buttons created			Star Mark Assessment			Star Mark sequence work			National assessment – for marks use Dreamweaver			Star Mark the game		
Homework		SAM Website Design Basics		SAM Creating Webpages		SAM Creating Websites			SAM – OWN micro:bit1		SAM – OWN micro:bit2		SAM – OWN micro:bit3		SAM – OWN micro:bit4			

Week	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
W/C Date	07-Jan	14-Jan	21-Jan	28-Jan	04-Feb	11-Feb		25-Feb	04-Mar	11-Mar	18-Mar	25-Mar	01-Apr	08-Apr		
Topic	Graphics: Vector v Bitmap	Graphics: Stamp and Combining Images	Graphics: Colour tools and text	Graphics: States	Graphics: Create your own Graphic Assessment	Online Safety: Hackers		*Review of star marking and 2nd draft improvements*	Online Safety: Viruses	Online Safety: Phishing	Online Safety: Digital Footprint	Online Safety: Staying Safe	Spreadsheets: Uses of a Spreadsheet	Spreadsheets: What is a Spreadsheet?		
Key Objectives	Compare the difference between a vector and bitmap image	Demonstrate graphics skills to combine 2 or more images	Demonstrate graphics skills to use colour tools and add text to graphics	Combine two different states to an image	Create a graphic based on an assessment brief	Describe what a hacker is Identify software that helps protect		*Review work identifying good areas and areas for improvement*	Identify different types of viruses Explain what a virus does to a computer system	Identify key indicators of a phishing scam Create your own phishing scam	Explain different ways in which your digital footprint can affect you	Investigate how to stay safe online Evaluate staying safe online	Explain why spreadsheets are used	Identify key parts of a spreadsheet		

						against hackers		*Improve work in response to feedback*			Imagine what your own digital footprint looks like					
Assessment	Star Mark work completed				Star Mark graphic created				Star Mark Virus work			Star Mark staying safe online work				
Homework	SAM Editing Graphics		SAM Graphics Basics		SAM Making Graphics				SAM OWN – Online Safety1		SAM OWN – Online Safety2		SAM Spreadsheet Basics			

Week	35	36	37	38	39	40	41	42
W/C Date	29-Apr	06-May	13-May	20-May		03-Jun	10-Jun	17-Jun
Topic	Spreadsheets: Simple Formula and Formatting	*Review of star marking and 2nd draft improvements*	ASSESSMENT	Spreadsheets: Min, Max, Average, Sum		*Review of star marking and 2nd draft improvements*	Spreadsheets: Advanced Formula	Spreadsheets: Test your learning - Project
Key Objectives	Apply simple formula to solve problems Choose appropriate formatting for your spreadsheet	*Review work identifying good areas and areas for improvement Improve work in response to feedback*	Written assessment for online safety work	Apply min, max, average and sum formulae appropriately to your spreadsheet		*Review work identifying good areas and areas for improvement Improve work in response to feedback*	Apply advanced formula to a spreadsheet – data validation lists	Demonstrate your spreadsheet skills in this practical assessment
Assessment	Star Mark use of spreadsheet work		Star Mark written assessment					
Homework		SAM OWN – Online Safety3		SAM Spreadsheet Features		SAM Spreadsheet Formula		SAM Spreadsheet Modelling 1

Week 43 to 46 will be dependent on options selected