Subject: Computing ARE YEAR Group:8

ARE	Term 2	Term 4	End of Year
Greater depth	**Spreadsheets** ✓ Can create an IF statement ✓ Can filter numerous data and answer questions relating to their findings ✓ Can use more complex formula appropriately ✓ Can use Nested IF statements ✓ Can use V-Look ups effectively **Python** ✓ Can use FOR loops to create basic shapes ✓ Can program a basic procedure ✓ Total independence in problem solving and de-bugging code ✓ Understands and can apply the three programming constructs.	**Networks** ✓ Can outline the different pieces of hardware to set up a computer network ✓ Understands the term legislation and provide appropriate examples ✓ Can explain the computer misuse act and DPA ✓ Can outline methods to protect your data against threats **Data Representation** ✓ Knows the difference between ASCII and Unicode ✓ Can explain how images are represented using binary ✓ Complete binary shifts & addition ✓ Understands the relationship between binary and file size (uncompressed).	**Cyber Security** ✓ Can independently use HTML to create a webpage ✓ Can create a table for a website using HTML code ✓ Can create a second page and create hyperlinks using HTML code. **Photoshop** ✓ Can use the tools in Photoshop confidently ✓ Can create magazine covers for different target audiences ✓ Can fully evaluate your work and modify work based on your evaluation ✓
Working at	**Spreadsheets** ✓ Can use formulae without help from the teacher ✓ Can apply basic formatting to a spreadsheet ✓ Can create a basic graph or chart ✓ Can use conditional formatting **Python** ✓ Can use code to print a basic statement in Python ✓ Can use inputs to interact with the code ✓ Knows basic commands to move the turtle ✓ Can create basic shapes using the commands ✓ Can change the pen colour and fill a shape ✓ Partial independence in problem solving and de-bugging code	**Networks** ✓ Understand the difference between a vector and bitmap image ✓ Know how images are represented by data ✓ Understand how sound is represented using binary ✓ Understands the relationship between resolution and colour ✓ Can outline why computers need binary code ✓ Can convert denary to binary and vice versa ✓ Understand what ASCII is and how characters are represented **Data Representation** ✓ Understands what a computer network is and can identify the difference between a standalone PC and a networked PC ✓ Can explain the differences between a LAN & WAN ✓ Can outline/describe the different topologies ✓ Can explain briefly what the internet is and how it works ✓ Can outline different computer threats and how you can prevent these	**Cyber Security** ✓ Create a basic website using HTML code and a text document. ✓ Can use basic tags to create paragraphs, headings, change font style/size, Change background colour etc. **Photoshop** ✓ Can produce a plan for a magazine cover that meets the needs to the target audience ✓ Can use basic tools in Photoshop ✓ Can create a magazine cover that is appropriate for the target audience
Working towards	**Spreadsheets** ✓ Able to open and save an Excel workbook ✓ Able to input data into an Excel workbook ✓ Can use basic formatting tools ✓ Can create a formula using autosum **Python** ✓ Understands what Python is used for ✓ Knows and understands the keywords input, output and print ✓ No independence in problem solving and de-bugging code	**Networks** ✓ Can outline what a computer network is ✓ Can identify network security threats ✓ Can identify two different topologies **Data Representation** ✓ Understands what binary code is ✓ Can convert denary to binary ✓ Knows that characters are represented using binary ✓ Can create simple pixel art using binary ✓ Understands and can explain the need for data compression (Sound & Images)	**Cyber Security** ✓ Understands Binary and why it is used ✓ Understands what HTML stands for and how it works ✓ Can open notepad and use basic tags **Photoshop** ✓ Knows how to identify appropriate features for a magazine front cover ✓ Has attempted to create a magazine front cover in software other than Photoshop