



Year 9 Progress Grid – Autumn Term

Name:

Class:

Topic	Grades 3/2/1 - (D/E/F)	Grades 6/5/4 - (B/C)	Grades 9/8/7 - (A*/A)
Terminology	I need support to use the correct terminology	I sometimes use the correct terminology	I always use the correct terminology
Feedback	I need support to act upon feedback in my marking log and improve my work	I can act upon feedback in my marking log and improve my work	I can independently act upon feedback in my marking log and improve and version my work accordingly
Presentation of Work	<ul style="list-style-type: none"> I always present my book work according to the school presentation policy I always include a suitable header, footer and page numbers on my printed work. 	<ul style="list-style-type: none"> I always present my book work according to the school presentation policy I always include a suitable header, footer and page numbers on my printed work. 	<ul style="list-style-type: none"> I always present my book work according to the school presentation policy I always include a suitable header, footer and page numbers on my printed work.
E-Safety	I know who to contact in school if I have an e-safety related matter	I know who to contact in school if I have an e-safety related matter	I know who to contact in school if I have an e-safety related matter
	I know where to find the school Internet User Policy	I know where to find the school Internet User Policy	I know where to find the school Internet User Policy
	I know the SMART E-Safety rules	I know the SMART E-Safety rules	I know the SMART E-Safety rules
VLE	I need support to navigate the VLE	I can navigate the VLE	I can navigate the VLE
Folder Structure	I need support to set up and name a basic folder structure	I can set up a basic folder structure with suitable names	I can set up a suitable folder structure with subfolders and suitable names
Saving Work	I need support to save my work in the correct folders with a suitable file names	I can save most of my work in the correct folders with suitable file names	I can save all of my work in the correct folders and subfolders with suitable file names
Email	I need support to access my email	I can access my email independently and some of the advanced email features	I can access my email independently and most of the advanced email features

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Number Systems	<ul style="list-style-type: none"> I can recognise binary numbers I can count in base 2 and base 10 I can convert 2 bit binary numbers into denary I can add 4 bit binary numbers with support With support I can understand the relationship between 0s and 1s and voltage 	<ul style="list-style-type: none"> I can recognise binary numbers I can count in base 2 and base 10 I can convert 4 bit binary numbers into denary I can add 4 bit binary numbers I can understand the relationship between 0s and 1s and voltage 	<ul style="list-style-type: none"> I can recognise binary numbers I can count in base 2 and base 10 I can convert between binary and denary numbers I can convert 8 bit binary numbers into denary I can add 4 bit binary numbers I can explain the relationship between 0s and 1s and voltage
Image Representation	<ul style="list-style-type: none"> I can explain what a pixel is I can explain pixilation I can use binary strings and create my own one bit image I can identify some image file types With support, I can explain the difference between bitmap and vector images With support, I can compress a file 	<ul style="list-style-type: none"> I can explain colour depth and relate it to bits per pixel I can identify a range of image file types I can explain the difference between bitmap and vector images I can compress a file and explain what is compression 	<ul style="list-style-type: none"> I can explain the relationship between binary numbers and 1 bit image representation I can explain DPI and colour depth and how they affect image size and resolution. I can identify a wide range of image file types I can explain the difference between bitmap and vector images and the advantages and disadvantages of each I can compress files and explain the advantages and disadvantages of compressing files
Steganography & Steganalysis	<ul style="list-style-type: none"> With support, I can explain steganography 	<ul style="list-style-type: none"> I can explain steganography 	<ul style="list-style-type: none"> I can explain steganography

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	<ul style="list-style-type: none"> • With support, I can explain the term metadata 	<ul style="list-style-type: none"> • I can explain the term metadata • I can explain how to use the Least Significant Bit method of hiding data 	<ul style="list-style-type: none"> • I can explain metadata and the advantages and disadvantages of this method • I can explain how to use the Least Significant Bit method of hiding data and the advantages and disadvantages
Networks	<ul style="list-style-type: none"> • With support, I can explain how a packet moves around a network • With support, I can identify the hardware required for a Network • With support I can explain the main network topologies • With support, I can describe the legislation surrounding the movement of data across networks • With support I can explain a simple disaster recovery plan • I can design a simple disaster recovery plan for a small business • I can discuss ways of keeping data safe and secure on a network 	<ul style="list-style-type: none"> • I can identify the hardware required for a Network • I can explain which hardware is responsible for moving packets around a network • I can explain the main network topologies • I can explain the main points of the legislation surrounding the movement of data across networks • I can explain the main points of a disaster recovery plan • I can design disaster recovery plan for a small business • I can discuss ways of keeping data safe and secure on a network including Failover, types of back up and archiving. 	<ul style="list-style-type: none"> • I can identify the hardware required for a Network and the purpose of each • I can explain which hardware is responsible for moving packets around a network and the impact on the efficiency of the network • I can explain the main network topologies and the advantages and disadvantages of each • I can explain, in detail, the legislation surrounding the movement of data across networks • I can explain, in detail, a disaster recovery plan. • I can design a detailed disaster recovery plan for a small business • I can discuss ways of keeping data safe and secure on a network including Failover, types of backup cycles and archiving.

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	<ul style="list-style-type: none"> • Create a basic acceptable use policy for a chosen company 	<ul style="list-style-type: none"> • Create a detailed acceptable use policy for a chosen company 	<ul style="list-style-type: none"> • Create a comprehensive acceptable use policy for a chosen company
Memory	<ul style="list-style-type: none"> • I can explain some of the different types of memory including Virtual, Cache and Flash memory 	<ul style="list-style-type: none"> • I can explain most of the different types of memory including Virtual, Cache and Flash memory • 	<ul style="list-style-type: none"> • I can explain the different types of memory and the advantages and disadvantages of each including Virtual, Cache and Flash memory •
Mini Consultant	<ul style="list-style-type: none"> • I can specify a simple computer system and recommend suitable storage. I can discuss relevant policies and legislation. 	<ul style="list-style-type: none"> • I can specify a simple computer system, recommend suitable storage and take into consideration cost, capacity and user needs. I can discuss relevant policies and legislation. 	<ul style="list-style-type: none"> • I can specify and fully justify a computer system for a network over two floors/locations, recommend suitable storage taking into consideration cost, capacity, user needs. I can discuss relevant policies and legislation.
Number Systems	<ul style="list-style-type: none"> • I can add comments to the code that converts binary to hexadecimal and explain what it does 	<ul style="list-style-type: none"> • I can convert 4 bit binary to hexadecimal • I can explain the importance of hexadecimal and relate to the real world including hardware and software. 	<ul style="list-style-type: none"> • I can convert 8 bit binary to hexadecimal • I can explain the importance of hexadecimal and relate to the real world including hardware and software. • I understand the computer uses number systems for different functions • I can explain signed magnitude notation • I can explain two's complement notation

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Truth Tables and Logic Gates	<ul style="list-style-type: none">• With support, I can create a truth table for AND, OR and NOT gates• I can simply explain the importance of simplifying circuits in relation to developing new technologies• I can create a simple circuit in a simulator	<ul style="list-style-type: none">• I can create a truth table for AND, OR, NOT and XOR gates• I can explain the importance of simplifying circuits in relation to developing new technologies• I can create a circuit in a simulator	<ul style="list-style-type: none">• I can create a truth table for AND, OR, NOT and XOR gates• I can explain in detail the importance of simplifying circuits in relation to developing new technologies• I can create a detailed circuit in a simulator
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