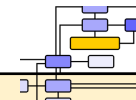


Yr 8.1 Assessment Grid- Advanced Binary



	Skill		Knowledge	
	Practical Skill Range and quality of ICT & programming skills and techniques	Analysing and evaluating Identifying areas for improvement and identifying where issues have developed and ways to resolve this. Both in their own work and others.	Theory Talking about Computational thinking and making IT connections in the real world .	Computational thinking Level Computational thinking allows us to take a complex problem, understand what the problem is and develop possible solutions. We can then present these solutions in a way that a computer, a human, or both, can understand.
Exceptional GCSE 8-9 in Y11	Fluent In: <ul style="list-style-type: none"> ● Can convert from Denary to Binary consistently, ensuring all calculations are correct ● Can convert from Binary to Denary consistently, ensuring all calculations are correct ● Can perform binary shifts consistently, ensuring all calculations are correct ● Can confidently Multiply or divide binary together 	Fluent In: <ul style="list-style-type: none"> ● Justifying why binary shifts is important. ● Can confidently identify the links between how sound and images are stored as binary 	Fluent In: <ul style="list-style-type: none"> ● Can define Binary, machine code, binary shifts and denary with confidence. ● Can confidently explain why binary is needed ● Using the correct terminology consistently ● Can name all logic gates and identify which gates have been used and why ● Understands the difference between analogue and digital ● Linking the use of these and esafety considerations consistently 	Fluent In: <ul style="list-style-type: none"> ● Can discuss colour depth and how it is linked to binary which in turn relates to file size ● Can confidently describe how sound is stored as data, linking it to analogue and digital ● Can discuss what sample rate and resolution are and impacts these can have on sound quality
Higher GCSE 6-8 in Y11	Secure In: <ul style="list-style-type: none"> ● Can convert from Denary to Binary confidently ● Can convert from Binary to Denary confidently ● Can perform binary shifts confidently ● Can multiply and divide binary together but may need support 	Secure In: <ul style="list-style-type: none"> ● Explaining to others the differences between a right and left binary shift ● Can identify how sound or images are stored as binary 	Secure In: <ul style="list-style-type: none"> ● Can define Binary, machine code, binary shifts and denary with prompts ● Can explain why binary is needed but may need support. ● Using the correct terminology sometimes ● Can name all logic gates 	SecureIn: . <ul style="list-style-type: none"> ● Can discuss colour depth and how it is linked to binary ● Can confidently describe how sound is storage as data ● Can explain what might affect the quality of a sound file but lacks terminology

			<ul style="list-style-type: none"> • Can define analogue and digital but struggles to link them together • Linking the use of these and esafety considerations consistently • 	
<p>Intermediate GCSE 4-6 in Y11</p>	<p>Growing In:</p> <ul style="list-style-type: none"> • Can convert from Denary to Binary with guidance • Can convert from Binary to Denary with guidance • Can convert either a right or left binary shift with guidance • Can begin to multiply or divide binary together with support but struggle to understand the overflow error 	<p>Growing In:</p> <ul style="list-style-type: none"> • With prompts can explain why Binary is important. • Explaining to others, with prompts the differences between a left and right binary shift • Can identify that sounds and images are stored as binary but cannot explain why 	<p>Growing In:</p> <ul style="list-style-type: none"> • Can define either Binary, machine code, or denary. • They understand that binary is made up of 0s and 1s. • Using the correct terminology occasionally • Can name at least 2 logic gates • Linking the use of these and esafety considerations consistently 	<p>Growing In:</p> <ul style="list-style-type: none"> • Can discuss colour depth and how it is linked to binary but needs prompts • Can identify that sound and images are stored as binary but lacks depth of understanding. • Can explain what might affect the quality of a sound file but needs support
<p>Foundation GCSE 2-4 in Y11</p>	<p>Emerging In:</p> <ul style="list-style-type: none"> • Can convert from Denary to Binary with support • Can convert from Binary to Denary with support • Can perform either a left or right binary shift with support 	<p>Emerging In:</p> <ul style="list-style-type: none"> • With support can explain why Binary is important. 	<p>Emerging In:</p> <ul style="list-style-type: none"> • Can define Binary or denary with guidance • They understand that binary is made up of 0s and 1s. • Using the correct terminology rarely • Can name at least 1 logic gate • Linking the use of these and esafety considerations rarely 	<p>Emerging In:</p> <ul style="list-style-type: none"> • Can discuss colour depth and how it may affect how an image looks

Outstanding	Making outstanding progress relative to their starting point (almost meeting expectations for next starting point)
Above	Making more than expected progress relative to their starting point (consistently meeting all expectations)
Expected	Making expected progress relative to their starting point (mostly meeting expectations for this starting point)
Working towards	Working towards expected progress for their starting point (below assigned starting point expectations consistently)