

# Progress Page

## Topic: Year 9 unit 6 computational thinking



<b>I should be working at:</b>	<b>ES</b>	<b>GD</b>
--------------------------------	-----------	-----------

Standard	Working towards	Expected standard
<b>ES1: I can describe how the fetch execute cycle works</b>	You can mention some steps of the fetch-execute cycle but may not fully explain their significance.	You can clearly describe each step of the fetch-execute cycle and its importance in computing.
<b>ES2: I can explain the function of a CPU</b>	You can identify the CPU but struggle to explain its functions clearly.	You can accurately explain the main functions of a CPU and how it processes information.
<b>ES3: I can state how images are represented using pixels/ in binary</b>	You can mention pixels but have difficulty explaining their binary representation.	You can explain how images are made up of pixels and how those pixels are represented in binary.
<b>ES4: I can explain what encryption and decryption is</b>	You can define encryption and decryption but may not explain their importance well.	You can clearly explain the concepts of encryption and decryption and their importance in data security.
<b>ES5: I can convert binary to denary</b>	You can attempt to convert binary to denary but make errors in the process.	You can accurately convert binary numbers to denary with confidence.
<b>ES6: I can convert denary to hexadecimal</b>	You can try to convert denary to hexadecimal but often get the conversion wrong.	You can accurately convert denary numbers to hexadecimal without mistakes.
<b>GD1: I can explain what compression is and the advantages of using</b>	You can define compression but struggle to explain its advantages.	You can explain what data compression is and list several advantages of using it.
<b>GD2: I can explain 3 factors which affect the speed of a CPU</b>	You can mention some factors affecting CPU speed but may not explain them thoroughly.	You can clearly explain three different factors that influence CPU speed and provide examples.