



Computer Science Disciplinary Literacy Framework

Think like a Computer Scientist

<u>Reading</u>	<u>Writing</u>	<u>Speaking and Listening</u>
<ul style="list-style-type: none"> Move between texts and graphics Ability to read multi-modal texts Analytical perspective encompassing a range of viewpoints Decipher word problems Specific vocabulary that can be easily confused Reading with precision Contextualising 	<ul style="list-style-type: none"> Lack of personal presence Objective stance Precise vocabulary Use of strong verbs Method writing Structured note taking Factual accuracy Evaluation 	<ul style="list-style-type: none"> Use subject specific vocabulary related to Computer Science Question/Challenge/Support speaker with their vocabulary Eye contact at all times (from speaker and audience) Use key vocabulary with accuracy Project loudly and clearly using full sentences

Strategies/pedagogy to support...

<ul style="list-style-type: none"> Reciprocal reading Independent reading Decoding Word identification 	<ul style="list-style-type: none"> Sentence crafting Modelling 	<ul style="list-style-type: none"> Accountable talk ACE – Accept/Challenge/Extend Talk for writing (structured talk) & paired writing Paraphrasing Upgrading learner responses Reading text and being able to articulate it back to the class. Students should be listening attentively as questions may be asked which could be bounced off other questions.
<p>Combining reading with writing:</p> <ul style="list-style-type: none"> Bedrock mapper sequenced to support the use of subject specific Tier 3 vocabulary in reading and writing Reading combined with note taking and answering questions 		

Curriculum opportunities (Year 9)

HT1	HT2	HT3	HT4	HT5	HT6
<p>Reciprocal reading, modelling and sentence crafting -</p> <ul style="list-style-type: none"> Looking at Algorithms and Pseudocode and being able to 	<p>Paired response, sentence crafting. Reading- (Decipher coding problems) combined with paired speaking</p> <ul style="list-style-type: none"> Predicting code using PRIMM 	<p>Using images to structure talk</p> <ul style="list-style-type: none"> Looking at images related to data compression and sound and structuring writing to understand 	<p>Predicting code - paired response, writing/sentence crafting</p> <ul style="list-style-type: none"> Writing code using PRIMM 	<p>Using images to structure talk. Guided teacher talk and modelling of Logic gates</p> <ul style="list-style-type: none"> Looking at how computers use Logic with the use 	<p>Predicting code - paired response, writing/sentence crafting. Reading combined with speaking then doing (writing) Upgrading learner responses through talk</p> <ul style="list-style-type: none"> Writing code using PRIMM

<p>replicate with a given scenario</p> <p>Reciprocal reading combined with speaking -</p> <ul style="list-style-type: none"> • Reading and summarising live stories related to Technology – • Bedrock mapper- support the use of subject specific Tier 3 vocabulary for Algorithms 	<ul style="list-style-type: none"> • Bedrock mapper- support the use of subject specific Tier 3 vocabulary for Fundamentals of Programming 	<p>differences in data compression techniques</p> <ul style="list-style-type: none"> • Bedrock mapper- support the use of subject specific Tier 3 vocabulary for Data Representation 	<ul style="list-style-type: none"> • Writing code using Precise vocabulary with Factual accuracy • Bedrock mapper- support the use of subject specific Tier 3 vocabulary for types of Programming Languages 	<p>of images to structure talk and then draw and solve logic problems</p> <ul style="list-style-type: none"> • Bedrock mapper- support the use of subject specific Tier 3 vocabulary for Logic Gates 	<ul style="list-style-type: none"> • Bedrock mapper- support the use of subject specific Tier 3 vocabulary for Robust Programming Design
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