

KEY STAGE 3 PROGRESS LADDER

SUBJECT: IT & Computer Science



STM STAGE	Digital Literacy	Information Technology	Developing Products	Networks & The Internet	Problem Solving
1	<p>Successfully accesses, organises and creates G suite files & folders.</p> <p>Understands the importance of secure passwords</p> <p>Can Identify risks online</p>	<p>Collects, organises and presents data and information in digital content.</p> <p>Creates digital content to achieve a given goal through combining software packages and internet services to communicate with a wider audience e.g. blogging.</p>	<p>I can create a product.</p> <p>I can design a product for a particular role.</p> <p>I can identify positives and negatives about my product.</p>	<p>Understands the difference between the internet and internet service e.g. world wide web.</p>	<p>I understand what an algorithm is and I am able to write simple linear algorithms. I can be careful and precise to avoid errors in my solutions</p>
2	<p>Successfully Create, Organise & share G suite files and folders</p> <p>Can keep a secure password</p> <p>Can identify online risks and knows how to report them</p>	<p>Analyses and evaluates data and information, and recognises that poor quality data leads to unreliable results, and inaccurate conclusions.</p>	<p>I can create a product for a target audience.</p> <p>I can design a product to meet a specification.</p> <p>I can identify positives and improvements for my product</p>	<p>Knows the difference between physical, wireless and mobile networks.</p>	<p>I can design simple algorithms using loops and selection and I can use logical reasoning to predict outcomes</p> <p>Detects and corrects errors</p>
3	<p>Successfully create, organise and share G suite resources across different platforms</p> <p>Can keep online files secure across devices</p> <p>Can identify and report online risks appropriately</p>	<p>Knows that there is a range of operating systems and application software for the same hardware.</p> <p>Evaluates the appropriateness of digital devices, internet services and application software to achieve given goals.</p>	<p>I can create products for a target audience.</p> <p>I can design products to meet a specification.</p> <p>I can improve my product based on feedback</p>	<p>Knows the names of hardware e.g. hubs, routers, switches, and the names of protocols e.g. SMTP, iMAP, POP, FTP, TCP/IP, associated with networking computer systems.</p>	<p>Designs solutions that uses repetition and two way selection and uses diagrams to express solutions.</p> <p>Uses logical reasoning to predict outputs showing inputs</p>
4	<p>Successfully develop gsuite resources using additional apps where appropriate across multiple platforms</p> <p>Keep information secure between users and devices.</p> <p>Reduce online risks across devices and social media platforms</p>	<p>Justifies the choice of and independently combines and uses multiple digital devices, internet services and application software to achieve given goals.</p> <p>Designs criteria for users to evaluate the quality of solutions, uses the feedback from the users to identify improvements and can make appropriate refinements to the solution.</p>	<p>I can create products for a range of target audiences</p> <p>I can design and develop products to meet a specification</p> <p>I can evaluate my products and make improvements</p>	<p>Knows the purpose of the hardware and protocols associated with networking computer systems.</p>	<p>Designs solutions by decomposing a problem and creates a sub-solution for each of these parts. Recognises that different solutions exist for the same problem.</p>
5	<p>Successfully add & use additional apps to Gsuite to make work more efficient.</p> <p>Explain how to secure work when it is shared between devices.</p> <p>Reduce the risks of living and operating as a digital native online</p>	<p>Effectively designs and creates digital artefacts for a wider or remote audience.</p> <p>Considers the properties of media when importing them into digital artefacts.</p>	<p>I can identify target audiences and purposes.</p> <p>I can design and develop a range of products to meet my specification.</p> <p>I can develop methods to analyse and evaluate my products and make improvements</p>	<p>Understands the client-server model including how dynamic web pages use server-side scripting and that web servers process and store data entered by users.</p>	<p>Understands that iteration is repetition of the same loop</p> <p>Represents solutions using Pseudocode</p> <p>Can recognise patterns</p>

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Level of Scaffolding

A

I can understand and complete the work at the stage it is pitched without any support from the teacher

I can demonstrate that I am ready to tackle the next stage of my learning.

B

I sometimes need help to understand and complete the work, so I might use:

Example work to show me how to do it well/how not to do it

Access a variety of online resources

Access help guides in Google Classroom to develop my work

Discussion about the task

Checklist of things to include

C

I regularly need extra help to understand and complete the work, so I might use:

Step by step guides

Planning frame/template

Working in groups or with a partner

Developing my solution with support from my teacher