

RGS Computer Science Lower School Course Summaries 2017-18

Term	1 st Form	2 nd Form
Autumn 1	<p style="text-align: center;"><u>RGS Network Skills</u></p> <p>File Organisation Email Office 365</p> <p style="text-align: center;"><u>Computer Hardware</u></p> <p>What is a computer? What is inside a computer? How it all works! The CPU</p>	<p style="text-align: center;"><u>RGS Network Skills</u></p> <p>File Organisation Email Office 365</p> <p style="text-align: center;"><u>My Digital World</u></p> <p>What To Trust Online Copyright Staying Safe Online</p>
Autumn 2	<p style="text-align: center;"><u>Scratch Platform Gamemaker</u></p> <p>Movement – controlled & automatic Scoring System Adding Levels Design your own game Development your own game Evaluation</p>	<p style="text-align: center;"><u>Python Programming</u></p> <p>Inputs & Outputs Data Types & Maths Making Decisions Using Turtle</p>

<p>Spring 1</p>	<p style="text-align: center;"><u>Spreadsheets</u></p> <p>Why use spreadsheets?</p> <p>Formatting</p> <p>Formulae & Functions</p> <p>Graphs & Charts</p> <p>Predictions</p> <p>Macros</p>	<p style="text-align: center;"><u>Back to the Future</u></p> <p>Alan Turing & Code Breaking</p> <p>Tim Berners-Lee & World Wide Web</p> <p>George Boole & Logic</p> <p>Charles Babbage & Problem Solving</p>
<p>Spring 2</p>	<p style="text-align: center;"><u>Binary Bits & Bobs</u></p> <p>The Binary Number System</p> <p>Binary Addition</p> <p>ASCII Characters & Code Breaking</p> <p>Bitmap Images & Cryptic Pictures</p> <p>How Computers Represent Sound</p>	<p style="text-align: center;"><u>Networks</u></p> <p>Local Area Networks</p> <p>Wide Area Networks</p> <p>Sending Data</p> <p style="text-align: center;"><u>Hexadecimal</u></p> <p>Hex to Denary Denary to Hex</p> <p>Binary to Hex Hex to Binary</p>

	<u>An Introduction to HTML</u>	<u>HTML & CSS</u>
Summer 1	What is HTML? HTML & Formatting Text HTML & Images HTML & Hyperlinks Mini Website Project	What is CSS? CSS, Background & Images DIV Tags, Pages Sections Layouts Introducing Javascript
Summer 2	Revision Online Assessment Review Activities Week	Revision Online Assessment Review Activities Week