

Term	NC Topics	RSE Assessment
AUTUMN	<p>Unit title – Data and Data Protection</p> <ul style="list-style-type: none"> ➤ Understand the difference between data and information ➤ Key features and functions of spreadsheets including SUM, MIN, MAX, AVERAGE, COUNTIF ➤ Formatting spreadsheets ➤ Explore methods to protect personal data ➤ Understand the laws concerning data and data security <p>NC Links: 3.1—design, use and evaluate computational abstractions that model the state and behaviour of real-world problems and physical systems 3.9—understand a range of ways to use technology safely, respectfully, responsibly and securely, including protecting their online identity and privacy; recognise inappropriate content, contact and conduct, and know how to report concerns</p>	<p>End of unit online assessment – teacher assessed MCQs</p> <p>Spreadsheet skills- peer and teacher assessed</p>
SPRING	<p>Unit title – Networks</p> <ul style="list-style-type: none"> ➤ Define a network ➤ Explore the benefits of networking ➤ Understand how data is transmitted across networks using protocols ➤ Understand the difference between wired and wireless transmission ➤ Define the ‘internet’ and the ‘world wide web’ ➤ Investigate internet protocols <p>NC Links: 3.5—understand the hardware and software components that make up computer systems, and how they communicate with one another and with other systems</p>	<p>End of unit online assessment – teacher assessed MCQs</p>
SUMMER	<p>Unit title – Programming 2: Scratch</p>	

	<ul style="list-style-type: none"> ➤ Introduction to block-based coding ➤ Create solutions to given problems using Scratch ➤ Be able to define variables ➤ Design systems using variables, count-based iteration and sub-routines ➤ Understanding the importance of testing in the system life cycle ➤ Be able to independently de-bug systems ➤ Evaluate final solution to find areas for further improvement <p>NC Links: 3.2—understand several key algorithms that reflect computational thinking [for example, ones for sorting and searching]; use logical reasoning to compare the utility of alternative algorithms for the same problem 3.3—use 2 or more programming languages, at least one of which is textual, to solve a variety of computational problems; make appropriate use of data structures [for example, lists, tables or arrays]; design and develop modular programs that use procedures or functions</p>	<p>End of unit online assessment – teacher assessed MCQs</p> <p>Final Scratch solution – self and teacher assessed</p>
--	--	--