Computing Curriculum Information For Parents Autumn 2 2023

	Main Module 3	
Year 1	Moving A Robot Bee-Bots	**Basic Skills Mini Module 2** Learners will work on keyboard and mouse skills to reinforce their phonics work. **Moving A Robot Bee-Bots** This module introduces learners to early programming concepts. Learners will explore using individual commands, both with other learners and as part of a computer program. They will identify what each floor robot command does and use that knowledge to start predicting the outcome of programs. Learners will be introduced to the early stages of program design through the introduction of algorithms (sets of instructions to be followed by a computer).
Year 2	Robot Algorithms Bee-Bots	**Basic Skills Mini Module 2** Learners will develop their typing skills in an activity linked to their Topic work. **Robot Algorithms Bee-Bots** This unit develops learners' understanding of instructions in sequences and the use of logical reasoning to predict outcomes. Learners will use given commands in different orders to investigate how the order affects the outcome. They will also learn about design in programming. Learners will develop artwork and test it for use in a program. They will design algorithms (sets of instructions to be followed by a computer) and then test those algorithms as programs and debug them.
Year 3	Branching Databases j2data	**Basic Skills Mini Module 2** Learners will develop their typing and presentation skills in an activity linked to their Topic work. **Branching Databases j2data** Learners will develop their understanding of what a branching database is and how to create one. They will use yes/no questions to gain an understanding of what attributes are and how to use them to sort groups of objects. Learners will create physical and on-screen branching databases. They will create an identification tool using a branching database, which they will test by using it. They will also consider real-world applications for branching databases.
Year 4	Datalogging	**Basic Skills Mini Module 2** Learners will develop their typing and presentation skills in an activity linked to their Topic work. **Datalogging micro:bit** In this module, learners will consider how and why data is collected over time. They will consider the senses that humans use to experience the environment and how computers can use special input devices called sensors to monitor the environment. Learners will collect data as well as access data captured over long periods of time. They will look at data points, data sets, and logging intervals. Learners will spend time using a computer to review and analyse data. They will pose questions and then use data loggers to automatically collect the data needed to answer those questions.
Year 5	Flat File Databases j2data	**Basic Skills Mini Module 2** Learners will develop their typing and presentation skills in an activity linked to their Topic work. **Flat File Databases j2data** This module looks at how a flat-file database can be used to organise data in records. Learners will use tools within a database to order and answer questions about data. They will create graphs and charts from their data to help solve problems. They will use a real-life database to answer a question, and present their work to others.

Year 6	Introduction To Spreadsheets Google Sheets	**Basic Skills Mini Module 2** Learners will develop their typing and presentation skills in an activity linked to their Topic work. **Introduction To Spreadsheets Google Sheets** This module introduces learners to spreadsheets. They will be supported in organising data into columns and rows to create their own data set. Learners will be taught the importance of formatting data to support calculations. They will be introduced to formulas and they will begin to understand how they can be used to produce calculated data. Learners will be taught how to apply formulas. They will use spreadsheets to plan an event and answer questions. Learners will create charts and evaluate their results in comparison to questions asked.