



## **Malbank School Computing Curriculum**



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- Understand how numbers can be represented in binary, and be able to carry out simple operations on binary numbers (for example, binary addition, and conversion between binary and decimal);
- Undertake creative projects that involve selecting, using, and combining multiple applications, preferably across a range of devices, to achieve challenging goals, including collecting and analysing data and meeting the needs of known users.

## Unit 5— Advanced Data

• Design, use and evaluate computational abstractions that model the state and behaviour of real-world problems and physical systems;

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;

• Use 2 or more programming languages, at least one of which is textual, to solve a variety of computational problems;

• Design and develop modular programs that use procedures or functions.

- Resilience
- Initiative
  - Communication

Resilience Leadshership

- Communication
- Self-drive
- Motivation
- Organisation



- Work well with others and use their own initiative to work out ICT related problem.
- Pushing themselves through the tough challenges that will pace them and attempt to try out the coding language.
- Expanding their leadership skills by taking part in small group activities and using their resilience when it comes to problem solving.

