Stage 2

Computational Thinking

- **2CT.01** Follow and understand linear algorithms.
- **2CT.02** Identify and correct a single error in algorithms that represent everyday events or tasks.
- **2CT.03** Know that an algorithm is a precise set of instructions.
- **2CT.04** Identify the steps needed to undertake tasks, in order to develop simple algorithms.
- **2CT.05** Predict the outputs of algorithms.
- **2CT.06** Know how to develop precise sets of instructions to complete simple tasks, such as drawing a picture of a particular object or building a brick tower.

Programming

- **2P.01** Understand that programs instruct computers how to run algorithms.
- **2P.02** Know how to recreate algorithms as programs.
- **2P.03** Know how to develop programs to produce desired outputs, including the use of the repeat command.
- **2P.04** Know how to plan the instructions for objects within programs.
- **2P.05** Understand the benefits of working with others when debugging programs.
- **2P.06** Identify the benefits of regularly testing programs throughout their development.
- **2P.07** Know how to debug programs so that they will run and will produce the desired output.
- **2P.08** Know how to enter directional instructions in to a physical computing device to enable it to reach a specific destination.

Managing Data

- **2MD.01** Know the advantages of storing data and information on computers.
- **2MD.02** Know how to use computing devices to present categorical data.
- **2MD.03** Investigate different ways of using computing devices to collect categorical data for a particular purpose.
- **2MD.04** Identify types of statistical data that can be manually recorded using computing devices.
- **2MD.05** Discuss the different types of data that a question may generate, limited to statistical and non-statistical.
- **2MD.06** Understand how data may help to solve problems.

Networks and Digital Communication

- **2DC.01** Identify a range of devices that can connect to a network, including to the internet.
- **2DC.02** Know that two devices working together can achieve things that neither device can achieve on its own.
- **2DC.03** Know that there are wired and wireless networks.
- **2DC.04** Know how to recognise when a network is and is not available.
- **2DC.05** Know that network connected devices share information with each other and that there are risks associated with this.

Computer Systems

- **2CS.01** Use the correct terminology to explain the functions of basic hardware and software.
- **2CS.02** Identify some features that make digital devices easy to use, including their physical parts and their functions.
- **2CS.03** Know the difference between input and output devices.
- **2CS.04** Identify tasks that computers can complete more effectively than humans.
- **2CS.05** Understand that people use different types of computer device depending on a range of factors, including their location or their purpose.
- **2CS.06** Compare the representation of robots in fiction with real robots that have a real world purpose.