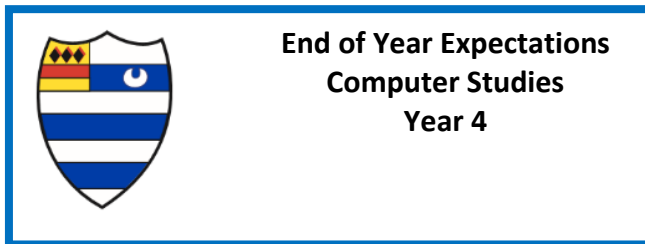## Coding

I can use a sketch or storyboard to represent a program design and algorithm.
I can use my design to create a program.
I can create an 'If/else' statement.
I understand what a variable is in programming
I can set/change the variable values appropriately.
I can interpret a flowchart that depicts an if/else statement.
I can create a program with a character that repeats actions.
I can use the 'Repeat Until' command to make characters repeat actions.
I can program a character to respond to user keyboard input.
I can make timers and counting machines using variables to print a new number to the screen every second.
I can create an algorithm modelling the sequence of a simple event.
I can manipulate graphics in the design view to achieve the desired look for the program.
I can use an algorithm when making a simulation of an event on the computer.
I know what decomposition and abstraction are in computer science.
I can take a real-life situation, decompose it and think about the level of abstraction.
I can design a decomposed feature of a real-life situation.

Writing for Different Audiences

I can explore how font size and style can affect the impact of a text.
I can use a simulated scenario to produce a news report.
I can use a simulated scenario to write for a community campaign.

Animation

I can discuss what makes a good animated film or cartoon and what my favourites are.
I know how animations are created by hand.
I can create an animation in a similar way using the computer.
I know what 'onion skinning' does in animation.
I can add backgrounds and sounds to animations.

End of Year Expectations Computer Studies Year 4

Hardware investigators

I know the different parts that make up a computer.
I can create a leaflet to explain the function of the different parts of a computer.

Logo

I can use the language of Logo to input simple instructions and create simple shapes.
I can use Logo to create letters.
I can use the Repeat function in Logo to create shapes.
I can use the Build feature in Logo to draw flowers.

Spreadsheets

I can use the formula wizard to add formulae and explore formatting cells.
I can use the timer, random number and spin button tools.
I can use data in a spreadsheet to create a line graph.
I can use a spreadsheet for budgeting.
I can explore place value with a spreadsheet

Effective Searching

I can locate information on the search results page.
I can search effectively to find out information.
I can assess whether an information source is true and reliable.

Online Safety

I understand how I can protect myself from online identity theft.
I understand that information put online leaves a digital footprint or trail which can aid identity theft.
I can identify the risks and benefits of installing software including apps.
To understand what 'plagiarism' and to consider the consequences of plagiarism.
I can use appropriate behaviour when producing collaborative online projects for learning.
I can select an appropriate website from search results and begin to consider if the content is reliable.
I can identify the positive and negative influences of technology on health and the environment.
I understand the importance of balancing game and screen time with other parts of my life.