# Year 4 Computing Autumn

### 4.2 Purple Mash Online Safety

To understand how children can protect themselves from online identity theft.

• To understand that information put online leaves a digital footprint or trail and that this can aid identity theft. • To identify the risks and benefits of installing software including apps. • To understand that copying the work of others and presenting it as their own is called 'plagiarism' and to consider the consequences of plagiarism. • To identify appropriate behaviour when participating or contributing to collaborative online projects for learning. • To identify the positive and negative influences of technology on health and the environment. • To understand the importance of balancing game and screen time with other parts of their lives.

#### 4.1 Purple Mash Coding

• To begin to understand selection in computer programming. • To understand how an IF statement works. • To understand how to use co-ordinates in computer programming. • To understand the 'repeat until' command. • To understand how an IF/ELSE statement works. • To understand what a variable is in programming. • To use a number variable. • To create a playable game.

### 4.3 Purple Mash Spreadsheets

• To format cells as currency, percentage, decimal to different decimal places or fraction. • To use the formula wizard to calculate averages. • To combine tools to make spreadsheet activities such as timed times tables tests. • To use a spreadsheet to model a reallife situation. • To add a formula to a cell to automatically make a calculation in that cell.

## Spring

#### 4.5 Purple Mash Logo

To learn the structure of the coding language of Logo. • To input simple instructions in Logo. • Using 2Logo to create letter shapes. • To use the Repeat function in Logo to create shapes. • To use and build procedures in Logo.

Safer Internet Day- assembly and lesson

#### 4.6 Purple Mash Animation

• To discuss what makes a good animated film or cartoon. • To learn how animations are created by hand. • To find out how animation can be created in a similar way using the computer. • To learn about onion skinning in animation. • To add backgrounds and sounds to animations. • To be introduced to 'stop motion' animation. • To share animation on the class display board and by blogging.

#### Summer

### 4.7 Purple Mash Effective Searching

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

### 4.8 Purple Mash Hardware investigators

 $\boldsymbol{\cdot}$  To understand the different parts that make up a computer.  $\boldsymbol{\cdot}$  To recall the different parts that make up a computer

### 4.9 Purple Mash Making Music

• To identify and discuss the main elements of music. • To understand and experiment with rhythm and tempo. • To create a melodic phrase. • To electronically compose a piece of music