

Computing LKS2

Throughout the year the children will cover a variety of aspects of the computing curriculum to ensure all children:

- can understand and apply the fundamental principles and concepts of computer science, including abstraction, logic, algorithms and data representation
- can analyse problems in computational terms, and have repeated practical experience of writing computer programs in order to solve such problems
- can evaluate and apply information technology, including new or unfamiliar technologies, analytically to solve problems
- are responsible, competent, confident and creative users of information and communication technology.

Autumn 1	Online Safety: Self-image and Identity Branching Databases (Y3) <ul style="list-style-type: none">• To create questions with yes/no answers• To identify the attributes needed to collect data about an object• To create a branching database• To explain why it is helpful for a database to be well structured• To plan the structure of a branching database• To independently create an identification tool
Autumn 2	Online Safety: Online relationships & online reputation Stop-frame Animation(Y3) <ul style="list-style-type: none">• To explain that animation is a sequence of drawings or photographs• To relate animated movement with a sequence of images• To plan an animation• To identify the need to work consistently and carefully• To review and improve an animation• To evaluate the impact of adding other media to an animation
Spring 1	Online Safety: Managing online information Events and actions (Scratch) (Y3) <ul style="list-style-type: none">• To explain how a sprite moves in an existing project• To create a program to move a sprite in four directions

	<ul style="list-style-type: none"> • To adapt a program to a new context • To develop my program by adding features • To identify and fix bugs in a program • To design and create a maze-based challenge
Spring 2	<p>Online Safety: Health, Wellbeing, Lifestyle Data logging (data loggers) (Y4)</p> <ul style="list-style-type: none"> • To explain that data gathered over time can be used to answer questions • To use a digital device to collect data automatically • To explain that a data logger collects 'data points' from sensors over time • To recognise how a computer can help us analyse data • To identify the data needed to answer questions • To use data from sensors to answer questions
Summer 1	<p>Online Safety: Privacy & security Audio editing (Y4)</p> <ul style="list-style-type: none"> • To identify that sound can be recorded • To explain that audio recordings can be edited • To recognise the different parts of creating a podcast project • To apply audio editing skills independently • To combine audio to enhance my podcast project • To evaluate the effective use of audio
Summer 2	<p>Online Safety: Copyright & ownership Repetition in games (Scratch) (Y4)</p> <ul style="list-style-type: none"> • To develop the use of count-controlled loops in a different programming environment • To explain that in programming there are infinite loops and count-controlled loops • To develop a design that includes two or more loops which run at the same time • To modify an infinite loop in a given program • To design a project that includes repetition • To create a project that includes repetition