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| **College Town Primary School - Computing Yearly Overview** |
|  | **Autumn 1** | **Autumn 2** | **Spring 1** | **Spring 2** | **Summer 1** | **Summer 2** |
| **Year 1** | **E- Safety**Understand where to go for help and support when he/she has concerns about content or contact on the internet or other online technologiesRecognise common uses of information technology in the home and school environment |  | **Login**Recognise common uses of information technology in the home and school environmentUse technology purposefully to create digital content |  |  | **Programming**Predict the behaviour of simple programsUnderstand what algorithms are and how they are implemented on digital devices |
| **Year 2** | **E -Safety**Use technology safely and keep personal information private. |  |  | **Using ICT – Simple PowerPoint** Recognise common uses of information technology beyond schoolUse technology purposefully to create, organise, store, manipulate and retrieve digital content. | **Programming – Sequence and order** Use logical reasoning to predict the behaviour of simple programsCreate simple programsCreate and debug simple programsDebug simple programs by using logical reasoning to predict the actions instructed by the codeUnderstand that programs execute by following precise and unambiguous instructions. |  |
| **Year 3** | **E- safety**Use technology safely and respectfully, keeping personal information private.Use technology safely and recognise acceptable and unacceptable behaviour. | **Using ICT – Embedded in all subjects**With support select and use a variety of software to accomplish goals.Recognise familiar forms of input and output devices and how they are used.Make efficient use of familiar forms of input and output devices.. | **Programming – Use and understand algorithms** Design write and debug programs that control or simulate virtual events.Use logical reasoning to explain how some simple algorithms work. | **Net – Searching and Networks – What is the internet**Use simple search technologies.Use simple search technologies and recognise that some sources are more reliable than others.Understand that computer networks enable the sharing of data and information.Understand that the internet is a large network of computers and that information can be shared between computers. | **Using ICT – Embedded in all subjects**With support select and use a variety of software to accomplish goals.Recognise familiar forms of input and output devices and how they are used.Make efficient use of familiar forms of input and output devices. | **Using ICT – Embedded in all subjects**With support select and use a variety of software to accomplish goals.Recognise familiar forms of input and output devices and how they are used.Make efficient use of familiar forms of input and output devices. |
| **Year 4** | **E- safety**Use technology safely and respectfully, keeping personal information private.Use technology safely and recognise acceptable and unacceptable behaviour. | **Programming – Make own algorithms**Decompose programs into smaller parts.Use logical reasoning to detect and correct errors in algorithms and programs.Select, use and combine a variety of software, systems and content that accomplish given goals. | **Using ICT – Embedded in all subjects**With support select and use a variety of software on a range of digital devices.With support select, use and combine a variety of software on a range of digital devices to accomplish given goals.Use other input devices such as cameras or sensors. | **Using ICT – Embedded in all subjects**With support select and use a variety of software on a range of digital devices.With support select, use and combine a variety of software on a range of digital devices to accomplish given goals.Use other input devices such as cameras or sensors. | **Net-searching and Networks – How search engines are used**Understand how results are selected and ranked by search engines.Understand what servers are and how they provide services to a network | **Using ICT – Embedded in all subjects**With support select and use a variety of software on a range of digital devices.With support select, use and combine a variety of software on a range of digital devices to accomplish given goals.Use other input devices such as cameras or sensors. |
| **Year 5** | **E- safety**Understand the need to only select age appropriate content. | **Using ICT – Embedded in all subjects**Independently select and use appropriate software for a task.Independently select, use and combine a variety of software to design and create content for a given audience. | **Net Searching and Net Works – Multimedia Presentations**Begin to use internet services to share and transfer data to a third party.Use filters in search technologies effectively and appreciates how results are selected and ranked. | **Using ICT – Embedded in all subjects**Independently select and use appropriate software for a task.Independently select, use and combine a variety of software to design and create content for a given audience. | **Programming**Design, input and test an increasingly complex set of instructions to a program or device.Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems.Design, write and test simple programs that follow a sequence of instructions or allow a set of instructions to be repeated.Design write and test simple programs with opportunities for selection, where a particular result will happen based on actions or situations controlled by the user.Use logical reasoning to explain how increasingly complex algorithms work to ensure a program's efficiency. | **Using ICT – Embedded in all subjects**Independently select and use appropriate software for a task.Independently select, use and combine a variety of software to design and create content for a given audience. |
| **Year 6** | **E- safety** Use technology respectfully and responsibly.Identify a range of ways to report concerns about content and contact in and out of school. | **Net - Searching and Network - Microsoft**Be discerning when evaluating digital content.Use filters in search technologies effectively and is discerning when evaluating digital content.Understand how computer networks enable computers to communicate and collaborate.Begin to use internet services within his/her own creations to share and transfer data to a third party. | **Using ICT – Embedded in all Subjects**Independently select, use and combine a variety of software to design and create content for a given audience, including collecting, analysing, evaluating and presenting data and information.Design and create a range of programs, systems and content for a given audience.Independently select, use and combine a variety of software to collect, analyse, evaluate and present data and information. | **Using ICT – Embedded in all subjects** Independently select, use and combine a variety of software to design and create content for a given audience, including collecting, analysing, evaluating and presenting data and information.Design and create a range of programs, systems and content for a given audience.Independently select, use and combine a variety of software to collect, analyse, evaluate and present data and information. | **Using ICT – Embedded in all Subjects**Independently select, use and combine a variety of software to design and create content for a given audience, including collecting, analysing, evaluating and presenting data and information.Design and create a range of programs, systems and content for a given audience.Independently select, use and combine a variety of software to collect, analyse, evaluate and present data and information. | **Programming – Link with Sandhurst School**Include use of sequences, selection and repetition with the hardware used to explore real world systems.Solves problems by decomposing them into smaller parts.Create programs which use variables.Use variables, sequence, selection, and repetition in programs.Use logical reasoning to explain how increasingly complex algorithms work and to detect and correct errors in algorithms and programs efficiently. |