

St Eanswythe's CE Primary School Computing Curriculum



Early Years		
<p>Basic Skills:</p> <ul style="list-style-type: none"> • Hold and use a mouse correctly • Click and drag on PC and on Smartboard • Use keyboard to type short simple words • Open and close programs 		
Multimedia Authoring	Network and E-Safety	Digital Creativity (text and graphic)
<ul style="list-style-type: none"> • Take a photo • Record and play back sounds simple sounds <p><i>Digital Cameras, iPad, Easi-speak Microphones, iMovie, Photostory</i></p>	<ul style="list-style-type: none"> • Have a basic understanding of online safety • Use equipment safely and responsibly • Save own work <p><i>Smartie the Penguin</i></p>	<ul style="list-style-type: none"> • Draw a picture and add text. • Draw and manipulate tools in a program • Animate a simple picture. <p><i>2create a story, 2animate</i></p>
Research and Communication	Programming and Data	Multimedia Authoring (2)
<ul style="list-style-type: none"> • Discuss the use of everyday technology • Know the parts of a computer and what they do <p><i>Catalogues</i></p>	<ul style="list-style-type: none"> • Order and sequence events • Give and follow instructions • Use programmable and remote control toys with 4 functions <p><i>Beebots, Tynker, Daisy the Dinosaur</i></p>	<ul style="list-style-type: none"> • Record a video • Sequence video • Record and play back simple sounds <p><i>2 type, Modelling Toolkit, iMovie</i></p>

Key:

Computer Science
Information Technology
Digital Literacy

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Year 1		
<p>Basic Skills:</p> <ul style="list-style-type: none"> • Click and drag on PC and on Smartboard • Use the keyboard to type simple, short words. • Use a list of pre-visited websites to search the Internet effectively and safely. • Save and close documents created. 		
Basic Skills & Network and E-safety	Research and Communication	Digital Creativity
<ul style="list-style-type: none"> • Log on to the system • Shut down the computer safely • Save work • Learn on a basic level what the internet is/can do • Understand that the internet can be dangerous and that they need to stay safe on the internet. • Use search engine <p><i>Think you know website – Hector's World</i></p>	<ul style="list-style-type: none"> • Find out about a topic using internet, books, databases etc. • Use search engine • To communicate with friends safely. <p><i>Bloggng, KidRex</i></p>	<ul style="list-style-type: none"> • Explore a simple paint package and discover how to use the tools. • Use the tools in a graphics package with control and confidence to compose a representation • Use a digital camera to take still photographs. • Explore a simple recording device <p><i>Digital cameras, 2Paint a picture, Photo Simple, PicCollage</i></p>
Programming and Data	Digital Text and Graphics	Multimedia Authoring
<ul style="list-style-type: none"> • Create a simple set of instructions to make something happen • Use the control buttons to move within an environment (using forwards, backwards left and right turns). • Try simple simulations, predict outcomes and suggest possible problems. <p><i>2Code, Bee-Bots, BeeBot (App). Daisy the Dinosaur, 2 Simple: Modelling, 2 Go, Tynker</i></p>	<ul style="list-style-type: none"> • Use the keyboard to create simple words and sentences. • Use a simple package to communicate their own ideas. • Resize text and colour without using WordArt <p><i>2Code, MS Word, MS PowerPoint, 2 Type</i></p>	<ul style="list-style-type: none"> • Add labels to photos. • Put photos in an order. • Use a simple recording device to play/listen and record simple sound files. • Create a simple animation. <p><i>MS word, 2 animate, iMovie, Windows Movie Maker</i></p>

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Year 2

Basic Skills:

- Use the mouse and keyboard confidently.
- Use a list of pre-visited websites to search the Internet effectively and safely.
- Open saved documents from their folder.
- Understand how to stay safe on the internet.

Multimedia Authoring	Digital Text and Graphics	Digital Creativity
<ul style="list-style-type: none"> • Create a photo slide show and add some text. • Create an animation and add sound effects. <p><i>2 animate, Photo story</i></p>	<ul style="list-style-type: none"> • Create a story using a simple word processing program. • Create a poster • Add borders and photos to a document. <p><i>2Code, MS Word, 2 Create a Story, 2 Publish</i></p>	<ul style="list-style-type: none"> • Use paint tools with accuracy, purpose and effect. • Explore a simple paint package and discover how to use the tools. • Use the tools in a graphics package with control and confidence to compose a representation. • Use digital cameras to film short scenes. • Explore and record a simple composition, fit for purpose. <p><i>2Paint a Picture, Digital Cameras, Music Toolkit (2Beat, 2Sequence)</i></p>
Research and Communication	Programming and Data	Network and E-safety
<ul style="list-style-type: none"> • Use pre-saved websites to collect information and answer questions. • Read words and watch videos on a website. • Use a website to find information. • Communicate with friends safely. <p><i>Blogging</i></p>	<ul style="list-style-type: none"> • Use sequences of instructions to control a roamer and also devices on screen. • Write a set of instructions for a device on screen. • Create a chart (pictogram/block graph) using data they collect <p><i>2Code, Bee-Bots, BeeBot (App). Daisy the Dinosaur, Espresso Coding, 2 Go, Modelling</i></p>	<ul style="list-style-type: none"> • Understand on a basic level how a School Network works • Understand how to use the internet, in particular Social networking sites, safely • Use search engine <p><i>Think you know website</i></p>

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Year 3		
<p>Basic Skills:</p> <ul style="list-style-type: none"> • Use search engines effectively and safely. • Confidently save work and retrieve files from a range of places on the network and/or cloud storage and understand the difference, e.g. my docs, shared work, hard drive on laptops. • Begin to use blogging and email and begin to communicate and support learning inside and outside of school. • Begin to evaluate their use of ICT. 		
Multimedia Authoring	Digital Text and Graphics	Digital Creativity
<ul style="list-style-type: none"> • To create a simple presentation on a topic. • Create an animation including pictures that are animated and sounds. <p><i>MS Powerpoint, 2animate</i></p>	<ul style="list-style-type: none"> • Import and export text from a range of sources. • Change the font, colour, and letter casing and make corrections. • Use the spell checker and dictionary accurately. • Use find and replace within text. • To create a word collage <p><i>2Code, MS Word/Publisher, Wordle</i></p>	<ul style="list-style-type: none"> • Select and use 'paint tools' to develop their ideas. • Create a 'picture' for a specific purpose – illustrations, picture, diagram photo etc. • Create a small sound file fit for purpose. • Compose a melody • To take and edit a photograph <p><i>2Paint a Picture, Easi-speak Microphones and Audacity, 2 Simple: Music Toolkit, digital cameras and Paint.Net</i></p>
Research and Communication	Programming and Data	Network and E-safety
<ul style="list-style-type: none"> • Search for information on the Internet using pre-checked websites by the staff. • Use pre-saved websites to collect information and answer questions. • Create a profile and communicate with friends online safely. <p><i>Blogging</i></p>	<ul style="list-style-type: none"> • Use commands to build complex sequences of instructions. • Use sequences of instructions to control devices on screen. • Sort data and produce a graph. <p><i>2Code, Espresso coding, Beebot, 2 Control, 2 Graph, Scratch, Tynker</i></p>	<ul style="list-style-type: none"> • Understand on a how a School Network works • Understand how to use the internet, in particular social networking sites, safely • Understand how to use Search Engines safely. • Understand how to keep information private and how to report concerns • To understand and use the zip it, block it, flag it slogan. <p><i>Think You Know website</i></p>

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Year 4		
<p>Basic Skills:</p> <ul style="list-style-type: none"> • Use search engines effectively and safely. • Generate, develop, organise and present work using ICT. • To use the Blogging and email and begin to communicate and support learning inside and outside of school. • Begin to evaluate their use of ICT and discuss this with their peers. 		
Multimedia Authoring	Digital Text and Graphics	Digital Creativity
<ul style="list-style-type: none"> • Make and edit a small film using simple media packages including animations. • Add sound or voice over to films. <p><i>Digital Cameras, Windows Movie Maker, Audacity, iMovie, Scratch</i></p>	<ul style="list-style-type: none"> • Combine and resize photos into collages. • Add text and wrap around. <p><i>Image Blender, MS word, Paint.net</i></p>	<ul style="list-style-type: none"> • Create a picture in the style of an artist. • Create a 3-d design. <p><i>2 Simple:2 Paint, 2 Draw, Sketch Up</i></p>
Research and Communication	Programming and Data	Network and E-safety
<ul style="list-style-type: none"> • Store pre-checked websites in favourites for easy access. • Select relevant and appropriate information from websites, which will enhance/develop their learning. • Be able to filter results. • Create effective searches. • Write emails and add attachments. • To communicate with friends online safely. <p><i>Blogging</i></p>	<ul style="list-style-type: none"> • Use commands to build complex sequences of instructions. • Test and debug a program/set of instructions. • Combine commands to create a trail. • Use sequences of instructions to control devices on screen. • Use simple programming software to create a simple game. • Understand and explain what an algorithm is. • Design a database, input data and sort records. <p><i>2Code, Espresso coding, Scratch, 2 Control, 2 Question, Scratch</i></p>	<ul style="list-style-type: none"> • Understand on a how a School Network works • Understand how to use the internet, in particular social networking sites, safely • Understand how to use Search Engines safely. • Understand and use passwords and know which are strong or weak. • Understand what a class learning platform is and use it to submit homework/converse with classmates. <p><i>Think You Know website</i></p>

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Year 5

Basic Skills:

- Use email and include attachments and create address books etc. to communicate and support learning inside and outside of school.
- With advice and support, choose the appropriate piece of technology to support and develop learning inside and outside of school, within the curriculum.
- Use the internet/search tools effectively and safely with adult support and begin to understand the importance of using/reproducing the information.
- Begin to critically discuss and assess the use of ICT in their own work and make improvements.

Multimedia Authoring	Digital Text and Graphics	Digital Creativity
<ul style="list-style-type: none"> • Create a presentation incorporating text, images and sounds for an identified audience. • Create a presentation with pictures and text including slide transitions. • Create a multimedia presentation using hyperlinks <p><i>MS Powerpoint, Prezzi, MS Powerpoint, blogging, MS Word, iMovie, Animoto, Green Screen</i></p>	<ul style="list-style-type: none"> • Create a document that is fit for purpose, using a range of 'publishing tools'. • Create a mind map and insert images. <p><i>MS Publisher, Digital Cameras, 2 Connect, ThingLink</i></p>	<ul style="list-style-type: none"> • To create a stop motion animation. • Add sound to the animation. <p><i>Zu3D animation</i></p>
Research and Communication	Programming and Data	Network and E-safety
<ul style="list-style-type: none"> • Interpret and interrogate information • Add to, amend and combine different forms of information. • Explore a virtual map. • To communicate with friends online safely. <p><i>Google Maps, Google Earth</i></p>	<ul style="list-style-type: none"> • Save and load procedures to computer • Use commands to build complex sequences of instructions. • Use sequences of instructions to control devices. • Describe one decision in an algorithm. • Repeat commands and create a procedure. • Input data into a spreadsheet and change the appearance of a cell. <p><i>2Code, Scratch, Espresso coding</i></p>	<ul style="list-style-type: none"> • Understand on a how a School Network works • Understand how to use the internet, in particular social networking sites, safely • Understand how to use search engines safely. • Understanding viruses and safe downloads. • Describe online hazards. • Understand why websites have age restrictions. <p><i>Think You Know website</i></p>

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Year 6

Basic Skills:

- Use a range of portable devices to extend learning, understanding and competency in the real world.
- With advice and support, choose the appropriate piece of technology to support and develop learning inside and outside of school, within the curriculum.
- Use the internet/search tools effectively and safely without adult support and understand the importance of using/reproducing the information.
- Critically discuss and assess the use of ICT in their own work and make improvements.

Multimedia Authoring	Digital Text and Graphics	Digital Creativity
<ul style="list-style-type: none"> • Create a game for others to play. • Add music and sound effects. • Create a webpage with hyperlinks. • Change the fonts, colours and embed videos. <p><i>MS Powerpoint, blogging, MS Word, iMovie, Animoto, Green Screen</i></p>	<ul style="list-style-type: none"> • To create a publication for a specific task with the target audience in mind. • Combine text and graphics for effect. <p><i>MS Word, Publisher, Thinglink</i></p>	<ul style="list-style-type: none"> • Undertake film making, through writing their own scripts, roles, rehearsals. • Develop sound effects and music to accompany the filmmaking. • Edit their production and include transitions and special effects. • Save their production to different media (e.g. save to USB, upload to video site etc.) <p><i>Windows movie maker, iMovie</i></p>
Research and Communication	Programing and Data	Network and E-safety
<ul style="list-style-type: none"> • Interpret information • Interrogate information • Add to, amend and combine different forms of information form a variety of sources. • To communicate with friends online safely. • Create an avatar and change my profile. <p><i>Blogging, Google</i></p>	<ul style="list-style-type: none"> • To create a sequence of instructions. • Use commands to build complex sequences of instructions. • Use sequences of instructions to control devices on screen. • Create a program for a purpose such as a game. • Explain the function and sequence of commands. • Use formulae in a spreadsheet. • Change format of the cells. • Draw a graph representing spreadsheet data. <p><i>2Code, Scratch, Espresso coding, Scratch, Kodu</i></p>	<ul style="list-style-type: none"> • Understand on a how a School Network works • Understand how to use the internet, in particular social networking sites, safely • Understand how to use search engines safely. • Understanding viruses and safe downloads. • Understand and use terms related to the internet such as ISP and URL. <p><i>Think You Know website</i></p>

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