

Create and Communicate Implementation

All Lessons Should Include These Skills In Order To Create and Communicate Digitally

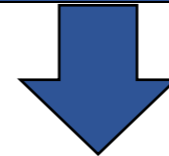
Saving and Retrieving

Children will be taught how to start a new project, save it and retrieve it. Over the key stages, children will learn how to save versions of the work and organise their digital life.

SeeSaw and 2Simple

Typing and Mouse Skills

Typing and mouse skills will be introduced in Foundation. By the end of Year 6, a desirable outcome would be for children to touch type. This will increase the speed at which they work on presentations.



Create and Communicate Skills To Teach

Drawing

This strand teaches digital image skills. How to use drawing software to make pictures, titles and logos for publications.

Sound

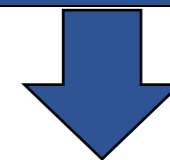
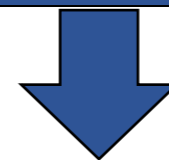
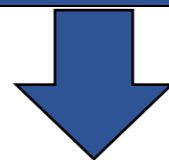
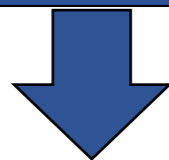
This stand teaches sound and audio skills. Part of this strand progresses music and instrument skills, sound layering and sound effects. Part of this strand progresses voice recording skills for narration in animation and digital books.

Animation

Children consume video now more than ever before. This strand teaches them how to animate stories rather than consume animated shows.

Data

This strand teaches children how to use spreadsheets and tables to aid their calculations, models and investigations in science and maths. Children learn how to input data and present it as graphs or charts. They will use their graphs and charts to answer questions and support their argument/opinion.



Knowledge and Understanding Outcomes

Each half term project to finish with a presentation and evaluation

Presenting

Create and Communicate ideas in posters, digital books, word processed reports/documents/articles, slideshow presentations, animations and spreadsheets.

Technology is an effective way of organising and presenting findings or messages to an audience. Over the years, children need to refine their presentation skills to ensure their message is communicated appropriately.

When presenting work, children are bringing together their skills of images, film, sound and data. They will apply their typing and mouse skills, save/retrieve their projects.

Evaluating

After presenting work, children need to evaluate their use of technology in communicating their findings or messages to an audience.

In this strand children will decide if their skills have been used appropriately and effectively.

	Foundation	Year1	Year 2	Year3	Year4	Year5	Year 6
Drawing	F1 <ul style="list-style-type: none"> Take a photograph using a tablet/camera F2 <ul style="list-style-type: none"> Use a painting program to explore paint tools and brushes 	<ul style="list-style-type: none"> Use a painting program to create a digital image (change colour/size of pen) 	<ul style="list-style-type: none"> Select and use appropriate tools to create digital image (control the pen and then flood fill the shape). 	<ul style="list-style-type: none"> Create a digital image using a variety of brush types, pen tools and effects. 	<ul style="list-style-type: none"> Create a logo using a variety of brush types, pen tools and effects. 	<ul style="list-style-type: none"> Use own images and logos in digital work for posters and reports. (Discuss photoshopping in the media/ celeb photos and body image) 	<ul style="list-style-type: none"> Use own images and logos in digital work. (Discuss photoshopping in the media- fake news/ celeb photos and body image)
Unit/Term	Autumn 1 – What makes me special? <u>Images</u> -make a self-portrait in 2Paint -children use iPad to take a photo of themselves/each other -	Autumn 1 – Did my grandparents have as much fun as me? <u>Images</u> -use 2Paint to draw pictures of family members. - use 2publish to make a book about their family – use skills learnt in 2paint to draw images. Type simple sentence underneath image.	Spring 1 – Where in the world am I? <u>Images</u> -use Pages (iPad) to draw pictures of CB landmarks -use Pages (iPad) to make a book about CB. -use iPad to take photos of local area - use iPad to record videos of local area	Summer 2 – Who first lived in Britain? <u>Images</u> -draw pictures of Creswell Crags using 2paint -using blank template on 2publish plus write up an article about the trip using image/s drawn.	Summer 2 – Where is North America? <u>Images</u> -images of Australian Aboriginal art pn 2paint -use 2publish to create a leaflet using images (upload) about Aboriginal art -save examples of art from internet to use in leaflet	Autumn 1 – Japanese Society <u>Images</u> -Images of Japanese art in 2Paint -Use images as part of a slideshow about Japanese art - design logo linked to Japanese artwork **change to WORD 2022** -type up an article using word processing software with own photographs/images/logos	Spring 2 -Who were the ancient Maya? (23/24) How does ancient Greek life impact on us today? (24/25 onwards) <u>Images</u> -draw own images using 2paint (look for app we could progress to) -use ppt to create slide show on the Maya using images. -scan images/use scanned images
Presenting	-display children’s photographs -children talk about photo work	-use 2publish to make a book about my family - make a digital book -change text, font, size and colour	- use Pages (iPad) to make a digital book using typed sentences containing multimedia like photos, sound and video -edit text including changing the appearance, positioning of text to suit a purpose -Move/resize images in to correct places	-use 2publishplus to write up an article about the trip -use word processing software to type up -experiment with font sizes and effects (bold underline, wordart) for different audiences and purposes	-use word processing software to type posters/fliers/infographics -use font sizes and effects appropriately for audience and purpose	-type up an article using word processing software with own photographs/images/logos -Organise and reorganise text on screen to suit a purpose	-Choose how to present your own work -Evaluate your own work
Evaluating	-say what software to use for a task -talk about own digital work	-know when to print your work – is it all finished? -does it look right on the paper? -have you used the right colours when you’ve printed? -are the fonts/images in the correct places when printed?	- save work as version 1 and adapt for version 2 before printing -Does it look right on the screen? -adapt colours/fonts/sizes of images before printing version 2	-Check work is finished and has name on before printing -check colours and fonts and images are appropriate to task	-plan and keep to a specific style or look for their work – are fonts, colours, layout appropriate and effective for the content and audience - do you own the digital images that you have used in your work?	-As Y4 but over a wider range of tasks, topics and audiences (Y4 -plan and keep to a specific style or look for their work- are the fonts, colours, layout appropriate and effective for the content and audience.) -Do you have permission to use the images you have included in your work?	-Evaluate another’s presentation on the basis of content and appropriate style -refine the quality of presentations as a result of peer review - did you credit the owners of digital work you have gained permission to share?
Typing & Mouse skills	-type own name in box on 2Paint -enter single letters on a keyboard	-use space bar to make spaces between words -use backspace to delete letters/words -make a new line with enter key	-use space bar only between words -use caps lock(iPad version) for a capital	-use index fingers on keyboard: they sit on the home keys (f/j) from there use thumbs for pressing space bar -use left fingers for asdfg -use right fingers for hjkl -use enter key for new line -use shift key for a capital	-touch type with increasing speed by using fingers to reach for top line keys, resting index fingers on home keys (f/j) -work with 2 windows snapped to the sides of the screen when finding information	-Touch type with increasing speed by placing index fingers on home keys (f/j) use fingers to reach for top line keys and lower line keys -use keyboard shortcuts for cut, paste and delete	-touch type with increasing speed by placing index fingers on home keys (f/j) use fingers to reach for top line keys and lower line keys
Saving and retrieving	-recognise save icon on 2Paint	-save work on 2simple	-upload photographs and videos to server	-save work on 2simple renaming versions (file_name V1, file_name V2 etc)	independently navigate the network and folders confidently and save consistently -search files and folders, sort by date	-independently navigate the network and folders confidently and save consistently -search files and folders, sort by date	-independently navigate the network and folders confidently and save consistently -search files and folders, sort by date
Possible resources	2Paint	2Paint 2Publish	2Paint 2Publish Pages	2Paint 2PublishPlus	2Paint 2Publish	2Paint 2Publish	2Paint PowerPoint

	Foundation	Year1	Year 2	Year3	Year4	Year5	Year 6
Animation	F2 <ul style="list-style-type: none"> Record and play a film Watch films back on tablet/digital camera 	<ul style="list-style-type: none"> Animate using drawings 	<ul style="list-style-type: none"> Animate short scenes using drawings and voice recordings 	<ul style="list-style-type: none"> Make title slides for animated stories. 	<ul style="list-style-type: none"> Record own sound effects Add titles 	Animate full stories with titled sections.	<ul style="list-style-type: none"> Animate full cartoon with titled sections, speech bubbles in scenes, and credits at the end.
Unit/Term	Autumn 2 – What is special about our place? / what happened in the woods? <u>Animation/video</u> -use iPads to film small world play -use voices during story to tell/explain what is happening	Summer 1 – How London has changed since the Great Fire of London? <u>Animation/Video</u> -use 2createastory (my simple story) of Great Fire of London. - add sound effects on 2createastory -type simple sentences/captions telling the story	Summer 1 – Who do we remember <u>Animation/video</u> -use 2createastory (my story) to create a digital book about life in CB -record narration as part of digital book -add sound effects -upload photos from CB into their digital story	Summer 1 – How do plants grow? <u>Animation/Video</u> -use 2animate to show the growth of a plant. retell story of a Viking journey -Include title slides to introduce parts of the plant life cycle. Animation to repeat to show a plants life as a cycle.	Autumn 1 -What makes a mountain? <u>Animation/Video</u> -use 2animate to make a story about a child evacuee. - Include titles -record own sound effects	Spring 2 – Who were the ancient Maya? <u>Animation/video</u> -Animate a Greek myth -title pages used to help tell the story -sound effects	Summer 2 – What were the achievements of the ancient Egyptians? (23/24) What happened to the Indus civilisation? (24/25 onwards) <u>Animation/video</u> -animate an Egyptian myth - titled sections to help tell story -speech bubbles -credits
Presenting	-children talk about film work	-Make a digital book using sound, images and typing captions	-Make a digital book using typed sentences, photos and sound/voice recordings	Experiment with font sizes and effects (bold, underline etc) for different purposes and audiences		-edit and import sounds and voice -organise and reorganise text on screen to suit a purpose	-choose how to present your own work - evaluate own work
Evaluating	-say what software they used for a task -talk about own digital work	-know when to print your work – is it all finished? -are fonts/images in the correct places when printed?	-save work as version 1 and adapt for version 2 before printing -does it look right on screen?	-check work is finished and has name on before printing	-Plan and keep to a specific style or look for their work -Do you own the digital images that you have used in your work?	As Year 4 but over a wider range of tasks, topics and audiences (-Plan and keep to a specific style or look for their work -Do you own the digital images that you have used in your work?)	-Evaluate another’s presentation on the basis of content and appropriate style -refine the quality of presentations as a result of peer review - did you credit the owners of digital work you have gained permission to share?
Typing & Mouse Skills		-use space bar to make spaces between words -use backspace to delete letters/words -make a new line with enter key	-use space bar only once between words -use cap locks for a capital	- use index fingers on keyboard: they sit on the home keys (f/j) from there use thumbs for pressing space bar -use left fingers for asdfg -use right fingers for hjkl -use enter key for new line -use shift key for a capital	-touch type with increasing speed by using fingers to reach top line keys, resting index fingers on home keys (f/j) -	-Touch type with increasing speed by placing index fingers on home keys (f/j) use fingers to reach for top line keys and lower line keys	touch type with increasing speed by placing index fingers on home keys (f/j) use fingers to reach for top line keys and lower line keys
Saving & retrieving		-save work on 2simple	-upload photographs to server or 2simple account -open a file from 2simple saved worked	-save work on 2simple renaming different versions (file_name V1, File_name V2 etc)n -upload work to class server or 2simple	-independently navigate the network and folders confidently and save consistently	-independently navigate the network and folders confidently and save consistently	-independently navigate the network and folders confidently and save consistently
Possible resources	iPad camera to video.	2createastory (my simple story)	2createastory (my story)	2animate	2animate	2animate Stop Motion Studio	2animate Stop Motion Studio

	Foundation	Year1	Year 2	Year3	Year4	Year5	Year 6
Sound	F2 • Record sounds/voices in story telling/ explanations	<ul style="list-style-type: none"> • Create a sequence of sounds (instruments, music software) • Experiment with long and short sounds • <i>Record speech for different purposes</i> • Know how to use stop, pause, record, play 	Record speech as narration Know how to use stop, pause, record, play	<ul style="list-style-type: none"> • Create and edit purposeful compositions using music software (eg create a mood or in a certain style) 	<ul style="list-style-type: none"> • Record sound effects/narration 	<ul style="list-style-type: none"> • Add a voice over to tell a film/story 	Add a voice over to a film/story
Unit/Term	Spring 1 – Recording Jack and the Bean Stalk musical retelling. <u>Sound</u> -make music to represent dinosaur footprints using 2Explore -record sounds on iPad that sound like dinosaurs/photos of kids being dinosaurs - make a class/group multimodal text with photos and sound about dinosaurs (2publish) (laptops) -explore talking book (laptops – click through pages on mouse pad)	Summer 2 – How did the fire change London? Where do you prefer to live? <u>Sound</u> -Record own versions of London’s Burning in 2sequence -Record own sounds in 2sequence -Record own voice to use on 2sequence -Type a sentence(s) to say what they thought of their final musical piece (2publish)	Autumn 1 – Where are we, Cropwell Bishop or Bagamoyo? <u>Sound</u> -create digital book on PurpleMash about changes in transport - chn add narration over the top of images	Spring 2 – What did Romans do for us? <u>Sound</u> -use Busy Beats (PM) to compose Roman inspired music for slides -Use 2publishplus (slideshow) to create a presentation about the Romans using their composition	Autumn 2 – What was the impact of WWII? <u>Sound</u> -create slideshow about the impact of WWII. -chd use narration/record to narrate over the slides reading sentences out	Spring 1 – Would you want to live in the Arctic? <u>Sound</u> - Children use draw features on ppt to tell a story about arctic animals -written sentences can also be included or key phrases - children add voice over – could be the characters (dialogue) or telling story	Spring 1 – What will happen when all the natural resources run out? <u>Sound</u> Children to record a report using pictures and voice over about natural resources (could use iPad video, PowerPoint etc)
Presenting	- make a class/group multimodal text with photos and sound about dinosaurs (2publish) -explore talking book	-Make a poster using photo (of them recording own version of London’s Burning sequence or screenshot and typing -change text, font, size and colour tools	-make a digital book using typed sentence containing multimedia like photos, sound and video	-make a slideshow presentation -experiment with font sizes and effects (bold, underline etc) for different audiences and purposes	-make a slideshow presentation with buttons to navigate slides -use cut, paste and delete to organise text on screen to suit purpose -use font sizes and effects appropriately for audience and purpose - use spell check and thesaurus	-edit and import sounds and voice -organise and reorganise text on screen to suit purpose	Choose how to present your message from a range of communications -evaluate own work
Evaluating	-say what software to use for a task -talk about own digital work	-know when to print your work – is it all finished? - does it look right on paper? Have you used the right colours when you’ve printed? Are the fonts/images in the correct places when printed?	-save work as version 1 and adapt for version 2 before printing -does it look right on screen? Adapt colours, fonts, sizes of images before printing version 2.	-check work is finished and has name on before printing -check colours and fonts and images are appropriate to task	Plan and keep to a specific style or look for their work -Do you own the digital images that you have used in your work?	As Year 4 but over a wider range of tasks, topics and audiences (-Plan and keep to a specific style or look for their work -Do you own the digital images that you have used in your work?)	Evaluate another’s presentation on the basis of content and appropriate style -refine the quality of presentations as a result of peer review - did you credit the owners of digital work you have gained permission to share?
Typing & Mouse Skills	-type own name -use a mouse/track pad on a computer	-use space bar to make spaces between words -use backspace to delete letters/words -make a new line with enter key	-use space bar only once between words -use cursor/touch to find the letter/word to delete with backspace (laptops) -use caps lock for a capital	- use index fingers on keyboard: they sit on the home keys (f/j) from there use thumbs for pressing space bar -use left fingers for asdfg -use right fingers for hjkl -use enter key for new line -use shift key for a capital	touch type with increasing speed by using fingers to reach top line keys, resting index fingers on home keys (f/j) -work with 2 windows snapped to the sides of the screen when finding information/cut and pasting etc -use keyboard shortcuts for cut, paste and delete	-Touch type with increasing speed by placing index fingers on home keys (f/j) use fingers to reach for top line keys and lower line keys -use keyboard shortcuts for paste, cut and delete	touch type with increasing speed by placing index fingers on home keys (f/j) use fingers to reach for top line keys and lower line keys
Saving & Retrieving	-know that X means exit -use new page icon	-save work on 2simple -open specific software on device	-upload photographs and videos to server or 2simple account Open a file from 2simple saved work	-save work on the 2simple renaming different versions (file_name V1, file_name V2 etc) -upload work to class server or 2simple	-independently navigate the network and folders confidently and save consistently -search files and folders, sort by date -search windows explorer for a file name or date	independently navigate the network and folders confidently and save consistently -search files and folders, sort by date -search windows explorer for a file name or date	independently navigate the network and folders confidently and save consistently -search files and folders, sort by date -search windows explorer for a file name or date
Possible resources	2Explore 2publish	2sequence 2publish	2createastory 2publish 2beat	2publishplus (slideshow)	2animate 2CreateaStory	2animate 2createastory Voice Memo App on iPad	

	Foundation	Year1	Year 2	Year3	Year4	Year5	Year 6
Data	<ul style="list-style-type: none"> Use pictograms/ charts as part of lessons with the children 	<ul style="list-style-type: none"> Use pictograms/ charts as part of lessons with the children 	<ul style="list-style-type: none"> Enter data in to a pictogram and use it find answers to simple questions (linked to maths curriculum) Type data into a table 	<ul style="list-style-type: none"> Enter data in to a spreadsheet and use it find answers to simple questions Type data in to tables 	<ul style="list-style-type: none"> Enter data in to a spreadsheet and use it find answers to simple questions Type data in to tables 	<ul style="list-style-type: none"> Enter data into a spreadsheet and use it to find answers to simple questions Type data into tables Generate a bar chart 	<ul style="list-style-type: none"> Create graphs from spreadsheets. Create and use a spreadsheet to produce costings that are within budget. Use ‘SUM’ formula to find totals.
Unit/Term	Summer 1 – Can you record the different amounts of minibeasts onto a graph? <u>Data</u> -use 2count to chart how many of each vehicle we spotted in CB. How many tractors did we see using pictogram. -use iPads to take photos of vehicles seen	Autumn 2 – what season is it? Where in the UK am I? <u>Data</u> -plot how much rain on 2graph as bar chart (could collect data or use internet sources) -plot weather using pictogram on 2count -using 2publish make a poster about local weather using graphs inserted	Autumn 2 – What is special about Cropwell Bishop? <u>Data</u> -use 2count (advance) to create a pictogram UK cities we have visited. - draw own pictogram images - Write and answer simple questions about data -use 2publish to write an article/leaflet about data collected. -import charts and data onto article/leaflet	Spring 1 – Why do we go to Europe on holiday? <u>Data</u> -collect data on holiday destinations we’ve been - record data in a spreadsheet on 2calculate - answer simple questions about the data (write the on poster and answer them) -create a poster on word cutting and pasting (or snip function) graphs and answering questions - type data into table on 2graph to create graph	Summer 1 – What is your favourite sport? <u>Data</u> -collect data relating to changes in local area eg: changes in pupils at school over last few years/CB population etc -record data in a spreadsheet on Numbers (iPad) - answer simple questions about the data -calculate totals/changes in population using formulae on Numbers -create graphs from tables in Numbers (iPad) -create poster/flier detailing how area has changed and inserting graphs to support -cut/paste (or snip) graphs into Word doc	Summer 1 – Rain forest <u>Data</u> -collect data linked to litter found in local area. -enter data into a spreadsheet on Excel -answer simple questions about the data - type data into a table - generate a bar chart on Excel ensuring labelled correctly -create a PowerPoint to share information collected about litter using graphs on slideshow	Autumn 1 – How do tectonic plates affect the landscape? <u>Data</u> -collect data from books/internet about height of volcanoes etc and create graph from spreadsheet - create and use a spreadsheet to produce costings within budget – planning end of year party? -Use ‘SUM’ formula to find totals -Present data using own choice of software -children to present their budget/party plan in a way of their choice eg: word, powerpoint etc -use graphs cut/paste into their work to illustrate costs etc
Presenting	-display children’s photos	-present data as a pictogram -Make a digital book or poster using photo, video, images and typing labels/captions	-edit text including changing the appearance, positioning of text to suit a purpose -move/resize images in to correct places on app/software -present data as a chart or table	-Use word processing software to type poster/flier -use spreadsheet to collect and present data -add borders to images -use cut, paste and delete to organise and reorganise text on screen -experiment with font sizes and effects for different audiences and purposes -use spell check	- use a spreadsheet to collect and present data, add titles and labels to graphs and charts -use word processing software to type posters/flier/infographics -use cut, paste and delete to organise and reorganise text on screen to suit purpose -use font sizes and effects appropriately for audience and purpose -use a spell check and thesaurus	- use a spreadsheet to present data, using formulas to find the total and average in the columns -create a non-linear, multimedia text with hyperlinking to different pages -organise and reorganise text on screen to suit a purpose	Choose how to present your message from a range of communication software -evaluate own work
Evaluating	-say what software to use for a task -talk about own digital work	Know when to print your work – is it all finished? -does it look right on paper? Have you used the right colours when you’ve printed? -are the fonts/images in the correct places when printed?	save work as version 1 and adapt for version 2 before printing -does it look right on screen? Adapt colours, fonts, sizes of images before printing version 2.	-check work is finished and has name on before printing Check colours and fonts and images are appropriate to task	-plan and keep to a specific style or look for their work – are the fonts, colours, layout appropriate and effective for the content and audience? -Do you own the digital images that you have used in your work?	-as in year 4 plan and keep to a specific style or look for their work – are the fonts, colours, layout appropriate and effective for the content and audience? -Do you own the digital images that you have used in your work? But over a wider range of topics, tasks and audiences -do you have permission to use the images you have included in your work	-Evaluate another’s presentation on the basis of content and appropriate style -refine the quality of presentations as a result of peer review - did you credit the owners of digital work you have gained permission to share?
Typing & Mouse Skills	-type own name -enter single letters on a keyboard	use space bar to make spaces between words -use backspace to delete letters/words -make a new line with enter key	use space bar only once between words -use cursor/touch to find the letter/word to delete with backspace (laptops) -use caps lock for a capital	- use index fingers on keyboard: they sit on the home keys (f/j) from there use thumbs for pressing space bar -use left fingers for asdfg -use right fingers for hjkl -use enter key for new line -use shift key for a capital	-touch type with increasing speed by using fingers to reach top line keys, resting index fingers on home keys (f/j) -work with 2 windows snapped to the sides of the screen when finding information/cut and pasting etc -use keyboard shortcuts for cut, paste and delete	Touch type with increasing speed by placing index fingers on home keys (f/j) use fingers to reach for top line keys and lower line keys -use keyboard shortcuts for cut, paste and delete	Touch type with increasing speed by placing index fingers on home keys (f/j) use fingers t reach for top line and lower line keys
Saving & Retrieving	Recognise save icon -know that X means exit	save work on 2simple -open specific software on device	-upload photographs and videos to server or 2simple account Open a file from 2simple saved work	-save work on the 2simple renaming different versions (file_name V1, file_name V2 etc) -upload work to class server or 2simple	-independently navigate the network and folders confidently and save consistently -search files and folders, sort by date -search windows explorer for a file name or date	-independently navigate the network and folders confidently and save consistently -search files and folders, sort by date -search windows explorer for a file name or date	-independently navigate the network and folders confidently and save consistently -search files and folders, sort by date -search windows explorer for a file name or date
Possible resources	2Count	2graph 2count	2graph 2publish 2count	2Publish 2graph Word	2publish 2graph Numbers on iPad Excel word	Excel PowerPoint	Excel

Coding

Reception – Spring 2 & Summer 2

Year 1 – Spring 1 & Spring 2

Year 2 – Spring 2 & Summer 2

Year 3 – Autumn 1 & Autumn 2

Year 4 – Spring 1 & Spring 2

Year 5 – Autumn 2 & Summer 2

Year 6 – Autumn 2 & Summer 1