



Computing

EYFS

Inquiry 1

Understanding the world: How could we listen to your favourite nursery rhyme?
How do we operate this?

Inquiry 2

Understanding the world: How can we capture our artwork and dances? How do you take a photo using the iPad?

Inquiry 3

Understanding the world - Use the iPad to take a photo, how do you edit the the image/ crop it to show the image that you want to share?

Inquiry 4

Understanding the world: How will you duplicate the images of your family in the past using technology within the school? How can we print using photocopier?
How can we capture and print images from an iPad?

Inquiry 5

Understanding the world:
How do we communicate using technology and what technology do we use to communicate.

Inquiry 6

Understanding the world: How will you use the iPad to capture and edit a photograph?
How will you create a video of researched information using clips/ iMovie?



Computing

Y1

Inquiry 1

Data Retrieving and Organising:

Can they capture images with a camera?

Can they print out a photograph from a camera with help?

Can they record a sound and play it back?

Inquiry 2

Communicating:
Do they recognise what an email address looks like?

Have they joined in sending a class email?

Can they use the @ key and type an email address?

Can they word process ideas using a keyboard?

Can they use the spacebar, backspace, enter, shift and arrow keys?

Inquiry 3

Data Retrieving and Organising:
Can they enter information into a template to make a graph?

Can they talk about the results shown on a graph?

Inquiry 4

Communicating:
Can they print out a page from the internet?

Can they record pupils' voices as a voiceover?

Can they use a teacher prepared photostory to create a slideshow of photos?

Inquiry 5

Can they record pupils' voices as a voiceover?

Can they use a teacher prepared photostory to create a slideshow of photos?

Inquiry 6

Algorithms and Programs:

Can they create a simple series of instructions - left and right? Can they record their routes? Do they understand forwards, backwards, up and down? Can they put two instructions together to control a programmable toy? Can they begin to plan and test a Bee-bot journey?



Computing

Y2

Inquiry 1

Data Retrieving and Organising:

Can they experiment with text, pictures and animation to make a simple slide show?

Communicating
Can they word-process a piece of text?

Inquiry 2

Data Retrieving and Organising:

Can they find information on a website?

Can they click links in a website?

Can they print a web page to use as a resource?

Inquiry 3

Data Retrieving and Organising:

Can they use the shape tools to draw?

Can they create a presentation in a small group and record the narration?

Inquiry 4

Algorithms and Programs:

Can they predict the outcomes of a set of instructions?

Can they use right-angle turns?

Can they use the repeat commands?

Can they test and amend a set of instructions?

Can they write a simple program and test it?

Can they predict what the outcome of a simple program will be?

Inquiry 5

Communicating:
Can they send and reply to messages sent by a safe email partner (within school)?

Can they insert/delete a word using the mouse and arrow keys?

Can they highlight text to change its format (B, U, I)?

Inquiry 6

Can they record sounds into software and playback?

Can they insert pre recorded sounds into a presentation?

Can they capture still and moving images?



Inquiry 1

Using the Internet
Can they find relevant information by browsing a menu?
Can they search for an image, then copy and paste it into a document?
Can they use 'Save picture as' to save an image to the computer?
Can they copy and paste text into a document?
Do they begin to use note-taking skills to decide what text to copy?
Do they begin to use note-taking skills to decide what text to copy?
Databases
Can they input data into a prepared database?
Can they sort and search a database to answer simple questions?
Can they use a branching database?

Inquiry 2

Presentation
Can they create a presentation that moves from slide to slide and is aimed at a specific audience?

Can they combine text, images and sounds and show awareness of the audience?

Do they know how to manipulate text, underline text, centre text, change font and size and save text to a folder?

Inquiry 3

Data Retrieving and Organising
Can they review images on a camera and delete unwanted images?

Have they experienced downloading images from a camera into files on the computer?

Can they use photo editing software to crop photos and add effects?

Can they manipulate sound when using simple recording storyboarding?

Inquiry 4

Communicating:
Can they use the email address book?

Can they open and send an attachment?

Inquiry 5

Algorithms and Programs
Can they experiment with variables to control models?

Can they use 90 degree and 45 degree turns?

Can they give an on-screen robot directional instructions?

Inquiry 6

Algorithms and Programs

Can they draw a square, rectangle and other regular shapes on the screen, using commands?

Can they write more complex programs?



Computing

Y4

Inquiry 1

Using the Internet:
Can they use a search engine to find a specific website?

Can they use note-taking skills to decide which text to copy and paste into a document?

Can they use tabbed browsing to open two or more web pages at the same time?

Can they open a link to a new window?

Can they open a document (PDF) and view it?

Inquiry 2

Presentation:
Can they create a lengthy presentation that moves from slide to slide and is aimed at a specific audience?

Can they insert sound recordings into a multimedia presentation?

Do they know how to manipulate text, underline text, centre text, change font and size and save text to a folder?

Inquiry 3

Data Retrieving and Organising:
Can they capture images using webcams, screen capture, scanning, visualiser and internet?

Can they choose images and download them into a file?

Can they download images from the camera into files on the computer?

Can they copy graphics from a range of sources and paste into a desktop publishing program?

Inquiry 4

Communicating:
Do they appreciate the benefits of ICT to send messages and to communicate?

Can they use the automatic spell checker to edit spellings?

Inquiry 5

Databases:
Can they input data into a prepared database?

Can they sort and search a database to answer simple questions?

Do they recognise what a spreadsheet is?

Can they use the terms 'cells', 'rows' and 'columns'?

Can they enter data, highlight it and make bar charts?

Inquiry 6

Algorithms and Programs:
Can they use repeat instructions to draw regular shapes on screen, using commands?

Can they experiment with variables to control models?

Can they make turns specifying the degrees?

Can they give an on-screen robot specific directional instructions that takes them from x to y?

Can they make accurate predictions about the outcome of a program they have written?



Computing

Y5

Inquiry 1

Using the Internet
Can they use a search engine using keyword searches?

Can they compare the results of different searches?

Can they decide which sections are appropriate to copy and paste from at least two web pages?

Can they save stored information following simple lines of enquiry?

Can they download a document and save it to the computer?

Inquiry 2

Data Retrieving and Organising
Can they listen to streaming audio such as online radio?

Can they download and listen to podcasts?

Can they produce and upload a podcast?

Can they manipulate sounds using Audacity?

Can they select music from open sources and incorporate it into multimedia presentations?

Can they work on simple film editing?

Inquiry 3

Algorithms and Programs
Can they combine sequences of instructions and procedures to turn devices on or off?

Do they understand input and output?

Can they use an ICT program to control an external device that is electrical and/or mechanical?

Can they use ICT to measure sound or light or temperature using sensors?

Can they explore 'What is' questions by playing adventure or quest games?

Can they write programs that have sequences and repetitions?

Inquiry 4

Databases
Can they create a formula in a spreadsheet and then check for accuracy and plausibility?

Can they search databases for information using symbols such as = > or <?

Can they create databases planning the fields, rows and columns?

Can they create graphs and tables to be copied and pasted into other documents?

Inquiry 5

Communicating:
Can they use instant messaging to communicate with class members?

Can they conduct a video chat with someone elsewhere in the school or in another school?

Inquiry 6

Presentation:
Can they use a range of presentation applications?

Do they consider the audience when editing a simple film?

Do they know how to prepare and then present a simple film?

Can they use ICT to record sounds and capture both still and video images?

Can they make a homepage for a website that contains links to other pages?

Can they capture sounds, images and video?

Can they use the word count tool to check the length of a document?

Can they use bullets and numbering tools?



Computing

Y6

Inquiry 1

Using the Internet:
Can they contribute to discussions online?

Can they use a search engine using keyword searches?

Can they use complex searches such as '+' 'OR' "Find the phrase in inverted commas"?

Inquiry 2

Presentation:
Can they present a film for a specific audience and then adapt the same film for a different audience?

Can they create a sophisticated multimedia presentation?

Can they confidently choose the correct page setup option when creating a document?

Can they confidently use text formatting tools, including heading and body text?

Can they use the 'hanging indent' tool to help format work where appropriate (e.g. a play script)?

Inquiry 3

Databases:
Can they collect live data using data logging equipment?

Can they identify data error, patterns and sequences?

Can they use the formulae bar to explore mathematical scenarios?

Can they create their own database and present information from it?

Inquiry 4

Algorithms and Programs:
Can they explain how an algorithm works?

Can they detect errors in a program and correct them?

Can they use an ICT program to control a number of events for an external device?

Can they use ICT to measure sound, light or temperature using sensors and interpret the data?

Can they explore 'what if' questions by planning different scenarios for controlled devices?

Can they use input from sensors to trigger events?

Can they check and refine a series of instructions?

Inquiry 5

Data Retrieving and Organising:
Can they explore the menu options and experiment with images (colour effects, options, snap to grid, grid settings etc.)?

Can they add special effects to alter the appearance of a graphic?

Can they 'save as' gif or jpeg wherever possible to make the file size smaller (for emailing or downloading)?

Can they make an information poster using their graphics skills to good effect?

Inquiry 6

Communicating:
Can they conduct a video chat with people in another country or organisation?