## Knowledge and Skills Progression

Subject area: Computing \*updated Nov 2020



| Knowledge and<br>Skills  | Foundation  | Year 1  | Year 2   | Year 3   | Year 4  | Year 5  | Year 6   |
|--|---|---|--|--|---|---|--|
| *Please also refer<br>to the Education<br>for a Connected<br>World Document<br>for differentiated<br>learning<br>outcomes. | Most children will:  Ask an adult when they want to use the internet  Be careful with technology devices  Know that they can say 'no', 'stop' to somebody who makes them feel sad, embarrassed or upset.  Explain some ways which the internet can be used to communicate | Most children will:  Talk about what personal information is Tell an adult when they see something unexpected or worrying online Recognise that there may be people online who can make me feel sad, embarrassed or upset Explain why it is important to be kind and considerate online | Most children will:  Talk about what sort of things they need to tell an adult about  Know that people may not tell the truth online and may not be who they say they are  Explain how people's identity online can be different to their identify in real life  Explain steps to communicate safely with people they don't know well  Talk about digital footprint  Give examples of what online bullying might look like | Most children will:  Talk about what makes a secure password and why they are important  Know basic methods to stay safe online such as not sharing personal information  Talk about age appropriateness of games and websites  Explain how online identity can be copied or altered  Talk about the differences between online and real life relationships  Identify some online locations where bullying might take place  Talk about in-app purchases | Most children will:  Choose a secure password  Talk about ways to protect themselves online  Talk about the safety features of games, apps and websites  Talk about the need to talk to an adult about downloading files and games  Comment positively and respectfully online  Explain how to block and report abusive users of technology  Talk about how apps may share personal information | Most children will:  Protect passwords and other personal information  Explain the best ways to protect themselves online, including reporting concerns to an adult  Know that anything posted online can be seen, used and may affect others  Talk about the dangers of spending too much time online  Talk about the importance of choosing age appropriate content and how to do this  Talk about why they need to protect their devices  Talk about the dangers of online relationships and how we avoid those dangers  Describe how to capture evidence of online bullying e.g. screenshots  Describe how criminals use techniques such as phishing to obtain money or information | Most children will:  Protect passwords and other personal information  Explain the consequences of sharing personal information online  Support friends to protect themselves and make good choices online  Explain the consequences of spending too much time online  Explain the consequences of not communicating kindly and respectfully  Know how to protect their devices from harm on the internet  Describe ways in which media can shape ideas about gender  Describe how they can support others who may be having difficulties online  Explain what app permissions are  Demonstrate how to make reference to and acknowledge sources I have used from the internet |
| Generic skills   | Most children will:  • be aware that pressing buttons will make a device respond eg remote control toy.  • use the mouse  | Most children will:  • be able to print work using the Print icon  • use both hands on the keyboard  • load programs with support   | Most children will:  use appropriate ICT vocabulary  load programs independently  save work independently  | Most children will:  • be aware that work can be saved in different places eg network, cloud, PenDrive  • be aware of folders and, with support,   | Most children will:  with support, be able to choose an appropriate program to perform a task  plan what they are going to do and evaluate the results  | Most children will:  • be able to choose an appropriate program to perform a task  • be able to combine and refine information from various sources.  | Most children will:  • be able to choose and combine the use of appropriate ICT tools to complete a task  • be able to critical evaluate the fitness for purpose of  |

|   | and the keyboard to explore programs  • be aware that moving the mouse moves the pointer on the screen  • be aware of the effect of pressing the mouse buttons  • have experience of a range of ICT equipment and software  • talk about what they are doing with ICT use appropriate ICT vocabulary | <ul> <li>know that work can be saved and retrieved</li> <li>save work with support</li> <li>retrieve work with support</li> <li>have experience of a range of ICT equipment and software</li> <li>talk about what they are doing with ICT</li> </ul>   | <ul> <li>retrieve work independently</li> <li>plan what they are going to do</li> <li>make simple modifications to their work (edit)</li> <li>practise keyboard skills using both hands, try to use more than two fingers, and try to use the thumb on the spacebar.</li> <li>have experience of a range of ICT equipment and software describe their work and how they have used ICT</li> </ul> | create and name new folders  print work using the drop down menu  use Print Preview  make changes to their work (edit)  select items and use cut, copy and paste as necessary  have experience of a range of ICT equipment and software  describe their work and how they have used ICT  annotate their work samples using prompts  use appropriate ICT vocabulary                  | understand that work can be saved in different places eg network, cloud, PenDrive understand the use of folders and be able to create and name new folders. understand and use the hierarchical file system consolidate keyboard skills -possibly using typing tutor software have experience of a range of ICT equipment and software describe their work and explain how and why they have used ICT annotate their work samples using prompts use appropriate ICT vocabulary | interpret and question the plausibility of information. have experience of a range of ICT equipment and software describe and discuss their work and explain how and why they have used ICT annotate their work samples using prompt questions use appropriate ICT vocabulary  | work as it progresses  • have experience of a range of ICT equipment and software  • describe and discuss their work and explain how and why they have used ICT  • annotate their work samples using prompt questions  • use appropriate ICT vocabulary   |
|---|--|--|--|---|--|--|---|
| Paint/ Draw /<br>Animation /<br>Photo editing/<br>Video | Most children will:  use a paint package to create a picture  with support, use a digital camera ipad or digital video camera to take pictures  be aware that digital pictures and video can be displayed on a computer screen   | Most children will:  use simple tools in a painting program  use a range of tools purposefully to create and alter the appearance of an image.  use a ipad, digital camera or recording device with support to take pictures  be aware that digital pictures and video can be saved on a computer  use simple software | Most children will:  • use different effects such as symmetry and filters to manipulate images or make changes.  • select appropriate paint tools within a paint package to create pictures that communicate their ideas.  • transfer images between devices or apps, with help.  • use still and video cameras independently to capture still images.   | Most children will:  • he able to use a wider range of tools within an art package as necessary.  • use a digital camera or digital video camera to take appropriate pictures or video for a specific purpose.  • use editing tools in a paint package for a specific purpose.  • do simple manipulation of images using an art package or other software eg the digital, camera's. | Most children will:  use a wider range of tools within an art package as necessary  be able to import a photograph, explore the effects, which can be created and use a range of visual effects such as filters, hues and painting over photographs to give different effects.  sequence & edit video footage and still images once transferred from a digital camera to computer.  add text, sound effects  | Most children will:  • use a wider range of tools within an art package as necessary.  • continue to manipulate images using an art package or other software.  • begin to evaluate when it is appropriate to use an art package and when another medium would be more suitable.  • continue to use a digital camera, ipad or digital video camera to take appropriate pictures or video for a specific purpose. | Most children will:  use a wider range of tools within an art package as necessary  continue to manipulate images using an art package or other software  know when it is appropriate to use an art package and when another medium would be more suitable  continue to use a digital camera ipad, or digital video camera to take appropriate pictures or video for a specific purpose |

digital camera's

• build up images by

selecting, copying and

• sequence still images

pasting within the

and video and use

simple editing

software

image.

and other graphic effects

• be able to create a

stopframe animation

using a camera with

built-in stop motion

software or an onscreen

stop animation package.

• evaluate and improve

to video.

• be able to use different

camera angles e.g. zoom,

panning, wide shot etc. to

• be able to plan a video or

animation by drawing a

filming techniques and

create different

storyboard.

mood/perspective.

• be able to select, copy and

improve photographs, such as

paste within and between

photographs.

celebrities.

• be able to explore

"airbrush" techniques to

used in magazines with

capture still images

and video footage.

arrange pictures or

• sequence and

video clips for a

• create simple

animations with

support using suitable

purpose.

to record a puppetstyle

animation, with

support.

|                                |  |  | software.   | techniques to create a presentation.  | digital work with a view to audience and purpose.   |  | • film, create, edit and refine to ensure quality; present to an audience.   |
|--------------------------------|--|--|---|---|---|--|--|
| Sound/ podcast/<br>composition | Most children will:  • use computing to listen to and talk about sounds; create simple sounds.   | Most children will:  use a sound recorder or on screen recorder to collect and store information as sound. know that sound can be recorded and played back  with support, use music software to experiment, create and play their own compositions | Most children will:  • create short musical phrases to suit a purpose, focusing on types of sound and/or rhythm using digital technology.  • select and record musical phrases, sound-effects or voice-overs to enhance multimedia work be aware that sound can be recorded on the computer as a sound file  • use music software to experiment, create and play their own compositions with support, evaluate and modify (edit) their own compositions | Most children will:  • use music software to organise and reorganise sounds.  • locate, record, save and retrieve sounds in multimedia software.  • begin to layer sounds using music composition software.  • with support, be able to record sound on the computer and be able to use the sound files in other applications  • use music software to plan, create and play their own compositions  • evaluate and modify (edit) their own compositions  • use a range of                        | Most children will:  • be able to layer sounds using music composition software.  • evaluate and re-record sound recordings where appropriate.  • be able to use the sound files in other applications use more sophisticate music software to plan, create, edit and play their own compositions   | Most children will:  • he able to select and edit sounds, text, movie clips and other effects to suit purpose and audience.  • he able to collect sounds from a variety of sources (sound editing software, online, digital sound recorder).  • use more sophisticate music software to plan, create, evaluate, edit and play their own compositions   | Most children will:  • be able to import sounds (recorded vocals, samples (digital sound files) and recordings from real instruments) into sound editing software.  • be able to layer and edit sounds.  • be able to save multimedia work as a web compatible format for uploading and podcasting; share online.  • continue to use more sophisticate music software to plan, create, evaluate, edit and play their own compositions                                |
| Communication                  | Most children will:  • know how computers help us outside school  • with help, log on to, personalise and use the tools within an online space | Most children will:  • be able to say what information is personal and should not be shared online, with support  • be able to tell an adult if they feel something they see online is inappropriate or hurtful                                    | Most children will:  • be able to make digital comments as an individual or as a class on other people's work.  • be involved in the process of sharing work online as a small group.  • be able to follow and understand school rules for staying safe online.  • be able to say what information is personal and should not be shared online.  • be able to save, print and retrieve work with support.   | musical instruments in their compositions  Most children will:  experience of other forms of online discussion, such as blogs, quizzes, surveys & video conferencing.  begin to upload some work independently to the VLE.  work within the internet safety rules, understand why they are in place and abide by them.  explain how to keep safe and the importance of being polite online.  be able to save work in a way that means it is easy to remember  compose and send email eg to a pre- | Most children will:  • know that mail can be sent all over the world electronically via computers (email)  • be able to upload work to a learning platform and know that it is important to consider the quality of work before posting to be seen by others.  • use at least two online communication methods (e.g. online discussion, surveys, quizzes, blogs, shared online folders, web quests) through the Learning Platform in topic work.  • use the shared platform to give useful and polite feedback to others on their work. | Most children will:  • be able to upload informative and interesting content to a VLE including various media.  • be able to initiate and take part in collaborative learning using a variety of methods e.g. email, discussions, quizzes, surveys, blogs, wikis, webquests, video conferencing  • send a picture or document  • understand what email is and why it is used  • know that files can be sent via email as attachments  • know that email can be sent or copied to more than one person  • know that an email can be forwarded to another person | Most children will:  • be aware that computer viruses can be sent via email be aware of email safety, rules  • be able to talk about how to use the social media and internet search engines safely.  • be able to develop and understand rules for personal internet safety.  • be able to develop and understand code of conduct for online collaboration and explain what to do in cases of cyberbullying.  • be able to present findings to a specific audience. |

|                                  |   | Mark della control  | Mark delidered ille  | arranged partner in another class in the school or in another school  • begin to be aware of email safety rules  | understand and be able to talk about how to use the Internet safely.  understand that it is important to keep passwords and other personal information secure.  Know that the internet has potential dangers & be able to explain how to keep yourself safe online.  be able to save work to both personal and shared areas and know the benefits of each. with support, send a picture or document as an attachment be aware of email safety rules  | begin to be aware that computer viruses can be sent via email     be aware of email safety rules   |  |
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| Word Process/<br>DTP/ Multimedia | Most children will:  combine text, images and possibly other features to create either a printable document or a simple multimedia presentation  use the keyboard to enter letters strings (play writing)  begin to use the space bar to break letter strings into groups of letters use the Back Space key to delete use a wordbank or word list to enter text eg to match with pictures | Most children will:  with support, add captions or sound to digital pictures or video  put text on screen  use upper and lower case  use the space bar  use the Return key  use the Shift key to make a capital letter  use word lists to enter text  with support, print their work using the Print icon  use a mouse to move and place items accurately on a screen.  produce text on screen and make changes to make it clear to know that work can be saved and stored on a computer. | Most children will:  with support, use a storyboard to do simple editing of a sequence of digital pictures or video eg change sequence, add transitions  know that text can be saved and retrieved  change the font size  change the font colour  print their work using the Print icon  use the cursor (arrow) keys for simple on screen editing  with support, import graphics and add text with support, write and send a short email eg to Santa make use of basic editing skills e.g. shift key and caps lock for uppercase, question marks and spaces after punctuation. | Most children will:  use a storyboard to edit a sequence of digital pictures or video eg change sequence, add transitions, effects, and sound  with support, be able to create a simple presentation or digital film eg to show year 2 pupils what KS2 is like  Independently select & import graphics and sounds from digital cameras & tablet devices, graphics packages, shared areas and the Internet and combine with text  select text and change the font style, size and colour  select text and use Bold and Underline icons  use the cursor (arrow) keys for simple on screen editing  use the scroll bars to view different parts of the document justify / | Most children will:  • be able to design and create a presentation or digital film eg to show other pupils what they did on a school trip  • begin to evaluate the suitability of the presentation for the given audience  • with support, make changes to the presentation to make it more suitable for the audience  • import graphics and use the Picture Toothar to choose the text wrapping  • Be able to evaluate a range of electronic multimedia appropriate to task e.g. website, photostory, leaflet and recognise key features of layout, design and presentation.  • when typing, begin to hold two hands over different halves of the keyboard and use more than two fingers to enter text  • use the spell checker | Most children will:  design and create a presentation or digital film eg to show other pupils what they did on a school trip  evaluate the suitability of the presentation for the given audience  make changes to the presentation to make it more suitable for the audience  use and practise their word processing skills in a range of contexts use software as a communication tool to collaborate with other pupils e.g. to work together on a project | Most children will:  • select and use a range of software and hardware tools to produce a presentation or digital film for a specific audience eg present an account of their residential trip to their peers.  • create hyperlinks for resources made or found.  • modify the presentation to make it more suitable for a different audience eg parents.  • use and practise their word processing skills in a range of contexts use software as a communication tool to collaborate with other pupils. |

|                       |   | Most children will:   | Most children will:  | align text  import graphics and add text  begin to use more than two fingers to enter text.  print using the menu use print preview  Most children will:   | use Find, search and replace if appropriate use Page Setup to choose Portrait or Landscape page as appropriate learn how to insert and use a simple table use the Zoom menu to view the whole page  Most children will:   | Most children will:   | Most children will:   |
|-----------------------|---|---|--|--|---|---|---|
| Control & Programming | <ul> <li>be aware that many everyday devices respond to commands.</li> <li>learn to switch on a programmable toy to activate movement</li> <li>follow simple instructions eg playing robots and following simple commands from a peer.</li> <li>play with remote control toys</li> <li>play with programmable robots be aware that pressing buttons makes the toy or robot respond</li> <li>guide a floor robot to visit specific locations on a floor map related to another subject, recording the instructions.</li> </ul> | <ul> <li>know that many everyday devices respond to commands</li> <li>follow simple instructions eg playing at robots and following a sequence of commands from a peer.</li> <li>begin to use the word algorithm</li> <li>begin to predict what will happen for a short sequence of instructions</li> <li>begin to use software and apps to create movement and patterns on screen</li> <li>be able to program a 'bot by giving single commands with an immediate outcome.</li> <li>be able to use the appropriate keys or commands to make a virtual or floor robot go forward, backward, left and right.</li> <li>be able to use basic symbols to record directional instruction.</li> <li>be able to use a developing range of language and styles of control e.g. tilt and turn / instructional to direct a robot.</li> </ul> | • Give instructions to a friend using forwards, backwards, turn etc and follow their instructions. • explain the order in which a sequence needs to happen and use the word algorithm to describe this. • he able to give control devices instructions that contain numerical data (e.g. move 2 steps) • he able to predict the behaviour of a virtual or floor robot from a sequence of instructions. • he able to predict a sequence of instructions. • he able to predict a sequence of instructions, record it by sequencing cards or using an agreed set of symbols, and test the sequence, amending if necessary. • he able to program a 'bot to follow a preplanned sequence by giving single commands with an immediate outcome. • make a robot or program achieve a particular task | be able to plan and enter a sequence of instructions for a 'robot' to achieve specific outcomes.      be able to debug sequences where necessary.      be able to use 'repeat' to achieve specific solutions to tasks.      begin to use 'If', 'when' and 'else' to solve specific problems.      begin to use predefined variables to alter the outcomes from a program | be able to use the 'repeat' and 'repeat until' command/block to program a 'bot more efficiently.     know that groups of instructions can be named as a procedure.     use and change a prewritten procedures.     begin to predict, program, test and amend longer sequences of linked instructions to achieve an intended objective.     understand that many real-world devices (i.e. traffic lights) are controlled using computer programs.     be able to make use of sensors as part of a linear program in a planned way. | <ul> <li>refine programs using repeat commands</li> <li>use a variable to increase programming possibilities</li> <li>change an input to change an output</li> <li>talk about how a computer model can provide information about a physical system</li> <li>use logical reasoning to detect and debug mistakes in a program</li> <li>use logical thinking, imagination and creativity to extend a program</li> <li>use "when" and "if" commands to create responses.</li> <li>use "say" commands to give information.</li> <li>test and debug regularly.</li> <li>program and explain what happens when more than one variable changes.</li> <li>use "and", "or" and "not" blocks to change responses and understand what they do.</li> <li>program responses to inputs from sensors</li> </ul> | • recognize similarities to solutions used before when debugging programs • explain each step of my algorithm and what its effect will be • evaluate the effectiveness of my algorithms while continually testing my programming. • recognise when a variable is need to achieve a required output • use a variable and operators to stop a program • know when to use "repeat", "repeat until" and "forever if" loops to make programs shorter and more efficient and he able to use them (understanding the differences between them). • understand what 'events' are, such as mouse clicks and broadcasts, and use them efficiently within programs to start and stop scripts. |

|                            |   |   | <ul> <li>begin to use the<br/>word debug my<br/>programming</li> </ul>  |   |  |  |   |
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| Simulations & Data logging | Most children will:  • explore options in simple simulations and in a paint package, making choices to achieve an outcome.  | Most children will:  • be able to change variables in simulations that represent real or lantasy situations and scenarios to create different outcomes and effects.  • use apps and programs to explore and experiment with different tools and make choices that create different effects. | Most children will:  • he able to enter data into a computer simulation/game.  • he able to change the variables in a simulation and use them to make and test predictions e.g. increase the size of a ball in a game and observe what happens.       | Most children will:  • be aware that digital devices eg thermometers can be used to measure external changes eg temperature  • with support, use a temperature sensor to record changes in temperature eg as part of a science experiment  • collect information with a data logger/recorder in real time.  • interpret graphs created by a data logger or information from a datalogger and make predictions | Most children will:  • understanding sensing devices can be used to monitor changes in environmental conditions and are present in a variety of real-life situations.  • be able to collect data from internet research, digital surveys and digital devices including data loggers and tablet devices.  • understand when, and be able to take both snapshot and continuous data.  • be able to read and interpret bar and line graphs created through data logging to draw conclusions to experiments.  • understand that computing can create graphs for different purposes; some are more appropriate and easier to read than others.  • Be able to enter data into a graphing package and use it to create a range of graphs and to interpret data across all subjects. | Most children will:  • be aware of other sensors that can be used eg light sensor, sound sensor, pulse monitor  • be able to interpret the data from the sensing device  • use sensing devices eg in their science experiments  • Understand what variables and procedures are in real life and be able to create them within a computer program to store and retrieve data. | Most children will:  • know when it would be appropriate to use a sensing device eg in a science experiment  • be able to use a range of sensors as appropriate  • think logically that when 'x' happens 'y' is the result and show this using code, flowcharts, diagrams or explanations   |
| Research                   | Most children will:  • know that the internet can be used to find information  • explore a variety of digital resources to access a range of information for a topic. | Most children will:  • be able to control a resource to access the information they require e.g. web site, tablet.  • be involved in the process of sharing work online.  | Most children will:  • be able to navigate a website using links.  • be able to find a website by following links set up by the teacher, by using Favourites or by typing into the address bar.  • be able to use a search engine to search for given | Most children will:  use a range of techniques to navigate a given site.  develop key questions to search for specific information to answer a problem  use a range of sources to find information on the Internet  begin to be aware of Internet safety rules  | Most children will:  understand that content on the internet can be located efficiently but is not always relevant.  use keywords for effective Internet searches. select relevant information (pictures, text, sound and video) to use in other software.   | Most children will:  • be able to search the internet for specific information using tools such as Google Advanced Search (Boolean searches).  • be able to skim read and sift information found online.  • To be able to check information for accuracy.  • be able to identify irrelevant, biased, implausible and inappropriate   | Most children will:  • be able to use a range of search engines and select the most appropriate based on the tools they provide (e.g. Google or Bing).  • use information from internet to make notes and present in a form of their choosing, without using copied/pasted text.  • be able to save media from the internet to be uploaded to |

| Data handling/<br>database & | Most children will:  • do practical   | Most children will:  • develop simple   | information to answer questions, sorting by text, pictures, sound and video.  Most children will: • be able to use   | Most children will:  • collect and enter data  | Most children will:  • understand that  | information.  • use hyperlinks to trail an idea. begin to be aware of privacy and other issues related to using the Internet  Most children will:  • be able to identify a   | an online platform.  • be aware that some media is copyrighted and cannot be used without permission  • check the accuracy of information  • be aware of privacy and other issues related to using the Internet  Most children will:  • use a more complex  |
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| graphing                     | sorting activities and discuss sorting criteria begin to develop simple classification skills • either as a class or individually, collect information. • use a pictogram to represent the information and answer simple questions about it | classification skills based on practical sorting activities  • he able to use a suitable on-screen program to represent information with pictures.  • he able to use a graph presented on screen to answer questions. | different types of graphs to represent data collected.  • be able to enter data into graphing software and choose the type of graph that is most appropriate to present data.  • be able to enter data accurately to provide the answers to questions.  • be able to search a pre-prepared database as part of a group, constructing questions and suggesting plausible answers.  • be able to perform sorting and grouping activities to find answers to questions. | into a prepared database structure  use a database to generate bar charts and graphs to answer questions.  answer questions by searching and sorting a database.  create record cards (analogue or digital) to store collected information.  transfer records to a pre-prepared digital database.  sort the data  learn to amend errors. | 'yes/no' questions can be used to divide a set of objects into subsets and that a sequence of 'yes/no' questions can identify an object.  • be able to create and use a branching database to organise, reorganise and analyse information. • know some reallife examples of branching databases, such as NHS direct diagnostic site, or cinema telephone booking system use the database to carry out an investigation • present data in different forms – graphs, tables • amend errors | problem which can be solved by collecting data and to identify which data to collect.  • be able to make predictions for this investigation and understand how to make it a fair test.  • be able to carry out the investigation, ensuring efficiency and accuracy.  • organise data by designing fields and records in a database.  • be able to Interpret results, using a range of searches and graphs, draw conclusions and analyse the effectiveness of the technology.  • draw conclusions from data and present findings to a specific audience  • carry out more complex searches on more complex prepared databases eg he able to answer complex questions such as – Did all the minibeasts in a particular habitat have the same diet?  • use AND and OR in their searches  • identify datahandling opportunities, set up a datafile and enter data  • check for validity and amend errors  • use the datafile to answer complex questions | database to explore patterns and relationships in data eg In a minibeasts database - Is there a relationship between habitat and diet?  • independently set up and use a datafile to carry out an investigation  • amend and delete data from records  • use editing tools to alter the design of a graph  • organise, refine and present information appropriate to the audience  • justify reasons for their choices and explain why other methods were not appropriate.  • be able to design questions using keywords, to search a large preprepared database.  • be able to search using 'greater' and 'less' than.  • be able to use graphs to provide supporting evidence for their conclusions.  • be able to check for accuracy by checking data and looking at graphs.  • be able to present results of database research. |
| Spreadsheets                 |   |   |  | 11030 Guide at Will.   | 1 1030 Guille at Will.  | 11030 G mm G V WW.   | 11050 Gium Gir Wim.   |

|  |  | <ul> <li>with support, use a spreadsheet to record data and produce graphs.</li> <li>with support, enter data in a prepared spreadsheet</li> <li>with support, select data to produce a graph</li> </ul> | <ul> <li>use a spreadsheet to record data and produce graphs</li> <li>enter data in a prepared spreadsheet</li> <li>select data to produce a graph</li> <li>use a spreadsheet to explore number patterns eg in a hundred square, multiplication table</li> <li>understand that spreadsheets perform calculations.</li> <li>be able change data and observe changes in results.</li> </ul> | <ul> <li>be able to set up a spreadsheet with appropriate headings.</li> <li>be able to use a simple formula eg SUM</li> <li>use a spreadsheet to investigate eg cost of foods / drinks Which is the best value drink?</li> </ul> | <ul> <li>be able to use formulae and functions in a spreadsheet</li> <li>alter the format of a spreadsheet</li> <li>change data to satisfy 'What if queries</li> <li>use a spreadsheet to solve simple problems eg the relationship between the perimeter and area of a quadrilateral</li> </ul> |
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