Year 2 We Are Astronauts.

Subject Specific Vocabulary		Software and Tools	Sticky Knowledge about Programming on Screen.
Algorithm	An algorithm is a clear sequence of instructions that allows a computer to solve a problem.	 Scratch is available from http://scratch.mit.edu. It is free to use online without 	I can plan a route from one place to another then to more than one place.
Robot	A machine capable of carrying out a complex series of actions automatically, especially one programmable by a computer.	 registration. Introductory Scratch tutorials: http://info.scratch. mit.edu/Video_Tutorials. 	I can programme a toy. I can programme a sprite to move in Scratch using
Predict	To say or estimate that a specified thing will happen in the future or will be a consequence of something.	 Alternative programming toolkits for this work include Kodu and Daisy the Dinosaur. 	blocks.
Problem	A matter or situation regarded as unwelcome or harmful and needs to be dealt with and overcome	 Pyonkee is available to download on ipads. 	I can predict where the instructions will take a person, toy or sprite.
Sprite	A computer graphic which may be moved on-screen and otherwise manipulated as a single entity.		I can record instructions to move a toy or sprite from
Program	To provide (a computer or other machine) with coded instructions for the automatic performance of a task.		one place to another. I can spot and correct
Instructions	Detailed information about how something should be done.	E- Safety	mistakes in a program.
Scratch / Pyonkee	An online programme (Scratch) / App (Pyonkee) for coding where you can create your own games and animations.	Remind the children about what to do if they encounter inappropriate material when using the web.	I can solve problems. I can consider the most
<u>Unit Overview</u> : In this unit, the children will build on work from <i>Unit 1.1 – We are treasure hunters</i> to program a sprite (such as a spaceship) to move around the screen. This unit acts as a springboard for programming in Year 3.		School operates a 'turn the screen off/ turn the tablet over and tell an adult' system.	efficient solution to a problem.

Year 2 We Are Detectives.

Subject	Specific Vocabulary	Software and Tools	Sticky Knowledge about collecting clues.
Address	A string of characters that identifies a destination for email messages or the location of a website.	 Outlook® (email for Windows) Excel (spreadsheet for Windows Mail (email for iOS) Numbers (spreadsheet for iOS) 	 I can read and write emails and write a reply. I can check my email for mistakes before I send it.
Attachment	A computer file added to an email.	 Numbers (spreadsheet for iOS) Information and ideas 	 I can see if an email and an attachment are from someone I
Database	A structured set of data held in a computer, especially one that is accessible in various ways.	 CEOP guidance for children on using email: www.thinkuknow.co.uk/8_10/control/email. Advice on 'netiquette' (online etiquette): 	 I can read and understand headers of emails.
Evidence	The available facts or information indicating whether a belief or proposition is true.	http://dotsafe.eun.org/www.eun.org/eun.org2/eun/en/ ds_main_/content2459.html and www.learnthenet.com/learn-about/netiquette.	
Email	The system of sending messages by electronic means	 The Story of Send (how email works from a Google perspective): 	 I can create a spreadsheet. I can organise a spreadsheet so it
Fact File	A collection of information about a particular subject or product.	 www.google.com/green/storyofs end/desktop. 	shows me the information I need.
Safety	To be protected from danger, risk, or injury.	E- Safety	Top email fips
solve a myster replying to ema witness statem	The part of an email before the message, containing information such as the subject and sender.	 In school all emails are sent and received via a single class email address. At home, if the children use individual accounts, they'll need to keep their account details private and share their email address only with people they know and trust. Stress to the children that they should never open email attachments that are unexpected or from unknown sources, they should be very wary of links in emails, and they should not give out personal information. 	<text><text><text><text><text></text></text></text></text></text>

Year 2 We Are Game Testers.

Sub	ject Specific Vocabulary	Software and Tools	Sticky Knowledge about.
Algorithm	An algorithm is a clear sequence of instructions that allows a computer to solve a problem.	Scratch: available online at http://scratch.mit. edu, or downloadable via http://scratch.mit.edu/	 I can talk about what happens in a computer game.
Predict	To say or estimate that a specified thing will happen in the future or will be a consequence of something.	scratch_1.4.	 I can see that a computer game works by following
Rules	A set of understood regulations or principles governing conduct or procedure within a particular area of activity.		 instructions. I can see how computer games are similar. I can predict what will
Scratch / Pyonkee	An online programme (Scratch) / App (Pyonkee) for coding where you can create your own games and animations.		 happen in a computer game. I can test a computer game.
Test	A procedure intended to establish the quality, performance, or reliability of something, especially before it is taken into widespread use.		 I can find and understand the code for a computer game. I know that some
Unit Overviev		E- Safety	games are for older
In this unit, the pupils will try to work out how some simple Scratch games work. They also look at free online or open source games and share their favourite games with the class.		Take care when choosing games for children to play, that PEGI (www.pegi.info/en/index) age restrictions are observed. Ensure that your browser's ad block filters (if available) are switched on. The pupils can access the Scratch website, including the example games, without registration.	 children. I can see why it can be hard to stop playing computer games. I know that I need to limit the time I spend playing computer games.

Year 2 We Are Researchers.

Subje	ect Specific Vocabulary	Software and Tools	Sticky Knowledge about researching a topic.
Google Mind Map	An internet search engine. A diagram in which information is represented visually, usually with a main idea placed in the middle and other linked ideas arranged around it.	 PowerPoint: Google Custom Search: www.google.co.uk/cse. Image galleries: Openclipart: 	 I can add and organise questions on a mind map. I can find information to add to my mind map. I can use search engines. I can use the web to find
Presentation	A speech or talk in which a new idea or piece of work is shown and explained to an audience.	 <u>http://openclipart.org</u> Flickr: www.flickr.com/search/ advanced 	information.I know that it is important to say where I found information.
Research	The systematic study of books, pictures, the internet and other sources in order to establish facts and find new things.	Basis Krisk moory Admin Intermory Admins Poside basic details and preferences for your starch orgins. Learn more Image: Complex comple	 I know that there are some images I can copy and some that I can't. I can find images and add them to
Search Engine	A program that searches for and identifies items in a database that correspond to keywords or characters specified by the user. Used especially for finding particular sites on the internet.	Bard co topic hybolic, e.g. comas guest numming "promotics guest Fritus to do. Fritus to do. Details Bard togics () Seech frige () Details Bard togics () Seech frige () Seech frige () Details Bard togics () Seech frige () Details Bard togics () Seech frige ()	 I can ind images and add them to my presentation. I can create a presentation that shows my research. I can use my presentation to teach others about a topic.
Search	To look for information. For example on the internet.	E- Safety	All About Blinds Car de sousce de la constante
<u>Unit Overview</u> : The children research a topic – safely, effectively and efficiently – using a structured approach (mind mapping). They share their findings with others through a short multimedia presentation.		 Ensure that Google (or other search engines) filters and safe search options are turned on. It is strongly advised to discuss with children what they should do if they encounter inappropriate material. School operates a 'turn the screen off/turn the tablet over and tell an adult' system. 	Thy or Tay have Carbon Tay have Toy have They have Toy have They have Thy have They have

Year 2 We Are Photographers.

Subjec	t Specific Vocabulary	Software and Tools	Sticky Knowledge about taking better photos.
Camera	A device for recording visual images in the form of photographs or film.	 iPhoto (iOS): PixIr (online): http://pixIr.com. Snapseed 	 I can take high quality photos that are in focus.
Image	A visible impression taken by a camera.	Online photo galleries:	• I can decide if a photo is worth keeping.
Pixel	A minute area of illumination on a display screen, one of many from which an image is composed.	 Flickr: <u>http://flickr.com</u>, 500px: <u>http://500px.com/popular</u> Pixabay: http://pixabay.com/en 	 I can edit photos to make them look better.
Portfolio	A large, thin, flat case for loose sheets of paper such as drawings or maps.		 I can choose my best photos for our class collection. I can talk about how I took, edited and
Theme	The subject or topic of a talk, piece of writing, exhibition, etc.	E- Safety	 I can give helpful feedback to my
Unit Overview: In this unit, the children review photos online, practise using a digital camera, take photos to fit a given theme, edit their photos, and then select their best images to include in a shared portfolio.		 Ensure appropriate safeguards are in place to filter inappropriate content, and that any safe search or safe mode settings are enabled. Talk to the children about what it is acceptable and unacceptable to photograph. It is not a good idea to take or share photographs in which children can be identified, or that might reflect badly on the children, you or the school. If the children upload work they create for others to see, make sure their identity and contact details are protected. 	friends. • I know that there are some photos I shouldn't put on the web.

Year 2 We Are Zoologists.

Subjec	t Specific Vocabulary	Software and Tools	Sticky Knowledge about collecting data.
Chart Photograph	A sheet of information in the form of a table, graph, or diagram. A picture made using a camera.	 Excel Numbers Google Maps Engine 	 I can take photos of animals that are in focus and are of high quality. I can edit, label and rate my photos.
Data	Facts and statistics collected together for reference or analysis	https://mapsengine.google.com/map.	 I can move photos onto the computer. I can use 'yes' or 'no' questions to decide
Database	A structured set of data held in a computer, especially one that is accessible in various ways.	Information and ideas Bugs Count (a national survey of bugs): www.opalexplorenature.org/bugscount. iSpot (identifying wildlife):	 which group an animal fits into. I can create a chart. I can add a title and label the axes of my chart.
Classification Key	A key is a set of questions about the characteristics of living things. You can use a key to identify a living thing or decide which group it belongs in by answering the questions.	www.ispotnature.org.	 I can change the way my chart looks. I can show my results in different types of charts. I can use a digital map to find a place. I can use GPS to show where I found my animals.
Tick chart.	A tick chart is one method of collecting data using tick marks to show a valuable data set.		A classification key for invertebrates
Tally chart	A tally chart is one method of collecting data using tally marks to show a valuable data set.	E- Safety	Does your hay how logit
<u>Unit Overview</u> : In this unit, the children go on a bug hunt, recording and identifying the small animals they find. They then organise the data they have collected, record it using a graphing package, and interpret the graph to answer questions about the animals.		 Take precautions to protect the children's identity if they upload work they create, particularly if it includes photographs or video of themselves or each other. Establish rules for using digital equipment when out of the classroom – to ensure the equipment is kept safe and that the children are not so focused on using it that they become unaware of risks around them. 	7/5 Tot how port to da body 100 m port to da body Tot how a minit, 10