

YR	<p>Throughout the year reception will use the class interactive whiteboard, the ipads, robots and bee-bots, the class touch screen computers and talking tins to help meet the following early learning goals:</p> <ul style="list-style-type: none"> • Communication and language- using ipads and sound buttons to record each other. Listening station where children can listen to stories and music <ul style="list-style-type: none"> • Personal, social and emotional- use of computer to show things from home • Literacy- developing reading and phonics using the computers and ipads to play games. Using interactive whiteboard to share online books. <ul style="list-style-type: none"> • Maths- whole class maths games and follow up on the computers using busytthings and minimash • Art- using the 2paint programme developing their motor and creative skills <ul style="list-style-type: none"> • Understanding the world- taking photos using the ipads
-----------	--

Year Group	Autumn Term 1	Autumn Term 2	Spring Term 1	Spring Term 2	Summer Term 1	Summer Term 2
Y1	<p>We are painters (Traditional Tales)</p> <p>Organise, store, manipulate and retrieve data in a range of digital formats</p> <p>(Use various painting software's to create an image that it saved and re-opened)</p>	<p>We are storytellers (Repetitive Stories)</p> <p>Organise, store, manipulate and retrieve data in a range of digital formats.</p> <p>Communicate safely and respectfully online, keeping personal information private, and recognise common uses of information technology beyond school.</p>	<p>We are celebrating (Card Making)</p> <p>Organise, store, manipulate and retrieve data in a range of digital formats.</p> <p>Communicate safely and respectfully online, keeping personal information private, and recognise common uses of information technology beyond school.</p>	<p>We are TV chefs (D.T food)</p> <p>Understand what algorithms are, how they are implemented as programs on digital devices.</p> <p>Use logical reasoning to predict and computing the behaviour of simple programs.</p>	<p>We are collectors (Africa)</p> <p>Understand what algorithms are, how they are implemented as programs on digital devices.</p> <p>Communicate safely and respectfully online, keeping personal information private, and recognise common uses of information</p>	<p>We are treasure hunters (Seaside)</p> <p>Understand what algorithms are, how they are implemented as programs on digital devices.</p> <p>Write and test simple programs.</p> <p>(Programme toys such as a BeeBot)</p>

		(Record sounds to insert into a powerpoint about a story. Insert images)	(Use Microsoft paint and word to create a greetings card. Use the internet to look at examples and use pictures- discuss copyright)	(Understand an algorithm is step by step instructions as shown in a recipe)	technology beyond school. (Find and use pictures off the internet to create a yes or no powerpoint)	
Y2	We are astronauts Understand what algorithms are, how they are implemented as programs on digital devices, and that programs execute by following a sequence of instructions. Write and test simple programs. (Using Scratch to create an algorithm for a space rocket)	We are game testers Understand what algorithms are, how they are implemented as programs on digital devices, and that programs execute by following a sequence of instructions.	We are photographers Organise, store, manipulate and retrieve data in a range of digital formats. Communicate safely and respectfully online, keeping personal information private, and recognise common uses of information technology beyond school. (Take photos, upload and edit using crop tool, lighting etc..)	We are researchers Organise, store, manipulate and retrieve data in a range of digital formats. Communicate safely and respectfully online, keeping personal information private, and recognise common uses of information technology beyond school. (Use the internet to search on google to gather information and turn into a powerpoint)	We are detectives Organise, store, manipulate and retrieve data in a range of digital formats. Communicate safely and respectfully online, keeping personal information private, and recognise common uses of information technology beyond school. (Use Word to draft and email, learn how emails work and their safety and as a class send the draft from word)	We are zoologists Organise, store, manipulate and retrieve data in a range of digital formats. Communicate safely and respectfully online, keeping personal information private, and recognise common uses of information technology beyond school. (Go on a bug hunt, take photos, create a tally- turn tally into chart and graph using Microsoft word and excel)

Y3	<p>We are presenters</p> <p>Select, use and combine a variety of software (including Internet services) on a range of digital devices to accomplish given goals, including collecting, analysing, evaluating and presenting data and information.</p> <p>(Use Movie Maker, to edit and improve a video then record voice to present to class)</p>	<p>We are vloggers</p> <p>Understand computer networks including the Internet</p> <p>Describe how Internet search engines find and store data; use search engines effectively</p> <p>Select, use and combine a variety of software</p> <p>(Use the internet to search for a given topic, create a powerpoint to share with the class, record themselves presenting)</p>	<p>We are programmers</p> <p>Design and write programs.</p> <p>Use sequence, selection, and repetition in programs</p> <p>Use logical reasoning to explain how a simple algorithm works and to detect and correct errors in algorithms and programs.</p> <p>(Use Scratch to create an animation)</p>	<p>We are bug fixers</p> <p>Design and write programs.</p> <p>Use sequence, selection, and repetition in programs</p> <p>Use logical reasoning to explain how a simple algorithm works and to detect and correct errors in algorithms and programs.</p> <p>(Use Scratch existing materials and identify why the programme is not working and fix it)</p>	<p>We are communicators</p> <p>Select, use and combine a variety of software</p> <p>Understand computer networks including the Internet</p> <p>(Expand on email work from Year 2- discuss all sections of emails and online safety, draft, write and send an email)</p>	<p>We are opinion pollsters</p> <p>Select, use and combine a variety of software</p> <p>Understand computer networks including the Internet</p> <p>(Create a survey using Google Forms, collect data then analyse using graphs)</p>
----	--	--	---	---	--	--

Y4	<p>We are game developers</p> <p>Design and write programs.</p> <p>Use sequence, selection, and repetition in programs</p> <p>Use logical reasoning to explain how a simple algorithm works and to detect and correct errors in algorithms and programs.</p> <p>(Using lightbot and kodu to create games)</p>	<p>We are toy designers</p> <p>Design and write programs.</p> <p>Use sequence, selection, and repetition in programs</p> <p>Use logical reasoning to explain how a simple algorithm works and to detect and correct errors in algorithms and programs.</p> <p>(Design a toy then transfer to Scratch and create algorithm to make it move)</p>	<p>We are musicians</p> <p>Use sequence, selection, and repetition in programs</p> <p>Understand computer networks including the Internet</p> <p>Select, use and combine a variety of software</p> <p>(Use music software LMMS and Musescore to create a piece of music)</p>	<p>We are animators</p> <p>Use a variety of software to design and create content that accomplish given goals</p> <p>Select, use and combine a variety of software including analysing, evaluating and presenting data and information</p> <p>(Use Moviesoup to create an animation)</p>	<p>We are internet researchers</p> <p>Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content</p> <p>Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour</p> <p>Understand computer networks, including the internet;</p> <p>(Understanding search engines and word order)</p>	<p>We are meteorologists</p> <p>Use logical reasoning to explain how a simple algorithm works and to detect and correct errors in algorithms and programs.</p> <p>Describe how Internet search engines find and store data; use search engines effectively</p> <p>Select, use and combine a variety of software</p> <p>(Collected weather results and put into excel, create graph, use this along with pictures to create a weather report on powerpoint)</p>
----	--	---	---	---	---	---

Y5	<p>We are bloggers</p> <p>Understand computer networks including the Internet</p> <p>Select, use and combine a variety of software</p> <p>(Use primary blogger to create a blog on schools blogging page and comment on each others)</p>	<p>We are web developers</p> <p>Understand computer networks including the Internet</p> <p>Describe how Internet search engines find and store data; use search engines effectively</p> <p>Select, use and combine a variety of software</p> <p>(Children use google sites to create their own web page)</p>	<p>We are artists</p> <p>Use sequence, selection, and repetition in programs</p> <p>Select, use and combine a variety of software</p> <p>Use logical reasoning to explain how a simple algorithm works and to detect and correct errors in algorithms and programs</p> <p>(Use Inkscape and Scratch to create tessellated shapes)</p>	<p>We are cryptographers</p> <p>Use logical reasoning to explain how a simple algorithm works and to detect and correct errors in algorithms and programs.</p> <p>Understand computer networks including the Internet</p> <p>(Use Scratch and Simon Singh to create hidden messages for others to de-code. Create a good password)</p>	<p>We are software developers</p> <p>Design and write programs.</p> <p>Use sequence, selection, and repetition in programs</p> <p>Use logical reasoning to explain how a simple algorithm works and to detect and correct errors in algorithms and programs.</p> <p>(Create a maths, times table game on Scratch)</p>	<p>We are architects</p> <p>Describe how Internet search engines find and store data; use search engines effectively</p> <p>Select, use and combine a variety of software</p> <p>(Use programme SketchUp to design a virtual gallery)</p>
----	---	---	--	---	--	--

Y6	We are adventure gamers	We are computational thinkers	We are advertisers	We are network technicians	We are travel writers	We are publishers
	Design and write programs. Use sequence, selection, and repetition in programs Use logical reasoning to explain how a simple algorithm works and to detect and correct errors in algorithms and programs. (Use scratch to write and create a gaming programme)	Design and write programs. Use sequence, selection, and repetition in programs Use logical reasoning to explain how a simple algorithm works and to detect and correct errors in algorithms and programs. (Use Scratch to create an algorithm for testing whether a number is prime)	Use logical reasoning to explain how a simple algorithm works and to detect and correct errors in algorithms and programs Describe how Internet search engines find and store data; use search engines effectively Select, use and combine a variety of software (Gather information, film and edit using movie maker an advertisement)	Understand computer networks including the Internet (Research how the internet works, use Scratch to see how it blocks certain domains like our school internet)	Describe how Internet search engines find and store data; use search engines effectively Select, use and combine a variety of software (Use Google Maps and Earth along with Tripadvisor to write a review on a recently visited location)	Understand computer networks including the Internet Describe how Internet search engines find and store data; use search engines effectively Select, use and combine a variety of software (Create a class yearbook using Microsoft publisher and word)