

Curriculum Objectives	Vocabulary				Links Across the Curriculum
Preparing for the National Curriculum: Using technology safely and purposefully.	Friends	People I play with and care about	Computer	Something we use to help or entertain us	Safeguarding- using technology safely British Values—respecting other people and their resources/ equipment.
	Unique	Things that make me special and different to other people	Own	Something that is mine	
	Private	Things we do not tell other people			

Lessons Sequence	Key Knowledge	Disciplinary Knowledge / Skills
1. What can I share online? <i>(Online Reputation)</i>	Children to learn that you can share information online.	Children know that you can post things about online.
2. Why should I write my name on my work? <i>(Copyright and Ownership)</i>	Children to learn that writing their name on their work allows other people to know who it belongs to.	Children can explain why they write their name on their own work.
3. How can I show my identity? <i>(Self-Image and Identity)</i>	Children to learn that sharing your likes and dislikes helps people understand their own identity.	Children can articulate their likes/dislikes which make up their identity.
4. What do we use computers for? <i>(Managing Online Information)</i>	Children to learn that computers can be used for many different purposes (communicating with others, entertainment, learning).	Children can identify different uses of computers.
5. What can I do away from technology? <i>(Health, Wellbeing & Lifestyle)</i>	Children to learn that there is a lot to do away from computers (story—Unplugged).	Children can articulate different ways to spend their time away from technology.
6. What is a password? <i>(Privacy & Security)</i>	Children to learn that a password is unique and helps keep information safe. Children to learn that we do not share passwords.	Children can explain what a password is.
7. How can I be kind? <i>(Online Bullying)</i>	Children to learn about different ways we can show kindness (sharing, being friendly, respectful etc).	Children can identify different ways we can show kindness.
8. How do I communicate with people? <i>(Online Relationships)</i>	Children to learn about different ways we communicate (playing with friends, eating together, talking in the playground, using the internet).	Children can identify different ways to communicate with other people.

Themes		Diversity in the Curriculum
Information Technology	Using technology purposefully to create digital content	

Outcome	Character Traits	Stickability	WOW
To create an ideal online friend cardboard cut-out.	Curious Articulate Kind	Google form assessment Digital Leaders	Continuous provision, visit from Leicestershire Police, assembly

Reception - Computing - Exploring parts of a Computer

Curriculum Objectives

Preparing for the National Curriculum:

- Use technology purposefully to create, organise, store, manipulate and retrieve digital content.

Vocabulary

computer	An electronic device that is used to store and sort information.
online	Connected to or reached through a computer or a computer network.

Links Across the Curriculum

Science—technology, the future, inventing things.

Lessons Sequence

1. What is a computer?

2. What are the different parts of a computer?

Key Knowledge

Children to review their learning on what a computer is from their previous learning. Children to identify the different features and parts of a computer. Children to understand that different features of a device have different purposes.

Children to review their knowledge of the different parts of a computer and identify these on a range of devices. Children to understand that different features of a device have different purposes.

Disciplinary Knowledge / Skills

Identify the different parts of a computer.

Understand that the different parts of computer have different purposes.

Themes

Future technology

Understand that technological developments are happening daily and this is changing our world at a dramatic rate.

Diversity in the Curriculum

Outcome

Children to orally name the different parts of a Computer and identify these on an actual physical computer.

Character Traits

Curious
Articulate

Stickability

Google Assessment form
Sticky labels
Repetition throughout Key Stage One.

WOW

Children to explore the different parts of a computer during free flow provision— take it apart and explore the different parts.

Reception - Computing - Computer Science—Codeapillars

Curriculum Objectives	Vocabulary				Links Across the Curriculum
Preparing for the National Curriculum: <ul style="list-style-type: none"> understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions. create and debug simple programs. use logical reasoning to predict the behaviour of simple programs. 	word	definition	word	definition	Science—technology, the future, inventing things.
	instructions	The act of giving knowledge.	backwards	Towards the back.	
	debug	To find and remove mistakes or flaws from.	left	To the left, opposite of the right.	
	route	A particular way of getting from one place to the other.	right	To the right, opposite of the left.	
	forwards	Toward the front.	algorithm	A set of clear and precise instructions.	

Lessons Sequence	Key Knowledge	Disciplinary Knowledge / Skills
1. What are instructions?	Children to begin to gain an understanding of what instructions are. Children to understand that instructions can be used in a range of situations and discuss times when instructions are used either at school or at home. Children to use positional vocabulary when providing the codeapillar with a set of instructions.	Understand what instructions are and use them in a range of settings.
2. How can I improve a set of instructions in Computing?	Children to understand that a set of instructions has to be in the correct order in order for them to work correctly. Children to begin to understand that a large part of Computing is problem solving. Children to understand that sometimes incorrect instructions can cause a problem and that the problem needs to be solved.	Problem solve to correct a set of instructions.
3. What is a set of instructions known as in Computing?	Children to understand that a set of instructions is also known as an algorithm in Computing. Children to understand that in basic terms an algorithm is a clear set of precise instructions. Children to create an algorithm for the coding critters.	Understand that an algorithm is a clear set of instructions.
4. How can I get a robot to move from point A to point B?	Children to use their knowledge of instructions and algorithms to create a route for the beebots.	Provide a set of instructions and check they work.

Themes		Diversity in the Curriculum
<i>Future technology</i>	Understand that technological developments are happening daily and this is changing our world at a dramatic rate.	

Outcome	Character Traits	Stickability	WOW
Children to understand that a simple set of instructions can also be used as a code in order to program a device. Children to program a basic device with a simple algorithm.	Curious Articulate	Google Assessment form Sticky labels Repetition throughout Key Stage One.	Children to have the opportunity to code and explore a range of coding devices including: coding critters, codeapillars and beebots.

Reception - Computing - Information Technology

Curriculum Objectives	Vocabulary				Links Across the Curriculum
Preparing for the National Curriculum: • Use technology purposefully to create, organise, store, manipulate and retrieve digital content.	word	definition	word	definition	Science—technology, the future, inventing things.
	Device	An invention or machine used to perform simple tasks.			
	digital	Storing using or sending information electronically in the form of numbers.			

Lessons Sequence	Key Knowledge	Disciplinary Knowledge / Skills
1. How can I login to a device? Word Processing	Children to gain an understanding of the different parts of a Chromebook including the power button, the trackpad and the screen. Children to learn that in order to login they need a username and password. Children to understand that they do not share their passwords with other people. Children to learn how to login to Numbots on the ipads.	Login to a device using a username and password.
2. How can I take a photo? Photography and video	Children to review their learning on cameras and the purpose of a camera. Children to use appropriate devices to take a photo.	Learn how to take a photo.
3. How can I create a digital image? Digital Art	Children to create a seasonal related picture by using their fingers and an app on the ipads known as Scribaloo. Children to explore the features of the app to create different colours and effects.	Create a digital image on a device.
4. What devices can I find at home and at school? Uses of I.T.	Children to identify and name a range of devices both at home and at school.	Identify a range of devices and their uses.
5. What is a comic strip? Animation	Children to learn that a comic strip is a short story. Children to understand that comic strips are often used to plan an animation.	Understand what a comic strip is and when it might be used.
6. How can I create sounds using a device? Music Creation	Children to understand that sounds can be made on a device. Children to understand that devices have microphones and speakers.	Understand that microphones and speakers create and project sound.
7. How do I use ebooks? Presentation and Ebooks	Children to access a range of eBooks on a range of devices. Children to use the prompts and buttons on screen to manipulate and read through the ebook.	Use a device appropriately.

Themes		Diversity in the Curriculum
Future technology	Understand that technological developments are happening daily and this is changing our world at a dramatic rate.	

Outcome	Character Traits	Stickability	WOW
Children to learn to login to a variety of programs on a range of devices. Children to use ipads to take photos and create digital art.	Curious Articulate	Google Assessment form Sticky labels Repetition throughout Key Stage One.	Children to have access to a variety of devices including Chromebooks and ipads. Children to use the devices for a range of purposes.