

2023/2024			
EYFS	Spring 1&2	Summer 1	Summer 2
Lead Enquiry Question	Computer Science: What are the changes in	Digital Literacy : How do we stay safe online?	Digital Literacy: What is my personal
(Composite Outcome)	our bodies?		information in real life and online?
Component Questions (components to be explored	CQ1: What are the important parts of the body?	CQ1: How can I say 'no' or 'stop' to someone?	CQ1: Why do devices need the internet?
throughout the unity	CQ2: What are the important parts of the body?	CQ2: How can I say 'no' or 'stop' to someone online?	CQ3: How do we stay safe with technology?
	CQ3: How can my body move in a pattern?	CQ3: How do we put information online?	CQ4: What is my personal information?
	CQ4: How can we focus on the important parts of a pattern?	CQ4: How can people be unkind?	CQ5: What work belongs to me?
A second set Charles sint	Children when one on our will be able to	Children when are an array will be able to	Cubildree who are as an end will be able to
Assessment Checkpoint	 Children who are secure will be able to: ✓ Logic – build on prior knowledge to form ideas. ✓ Pattern – Recognise similarities and differences. ✓ Abstraction – focus on what is important. ✓ Decomposition – break down tasks into smaller parts. ✓ Algorithms – recognise a sequence of instructions. ✓ Debugging – find and fix errors or bugs in a source. Expressive Arts and Design -Return to and build on their previous learning, refining ideas and developing their ability to represent them. Understanding the world Begin to make sense of their own life-story and family's history. 	 Children who are secure will be able to: ✓ Online and offline know how to say 'no' or 'stop'. ✓ Know different ways to communicate online. ✓ Know how to put information online. ✓ Describe ways people can be unkind. Personal, Social and Emotional Development Show resilience and perseverance in the face of a challenge. Know and talk about the different factors that support their overall health and wellbeing: -sensible amounts of 'screen time'. 	 Children who are secure will be able to: Know what devices connect to the internet. Know how to find information online. Know rules to stay safe with technology. Know what personal information is. Know that work belongs to me and others. Personal, Social and Emotional Development Show resilience and perseverance in the face of a challenge. Know and talk about the different factors that support their overall health and wellbeing: -sensible amounts of 'screen time'



- Continue developing positive attitudes	
about the differences between people.	
- Talk about members of their immediate	
family and community.	
- Comment on images of familiar situations	
in the past.	
<u>Mathematics</u>	
Begin to describe a sequence of events, real	
or fictional, using words such as	
✓ 'first', 'then'	



2023/2024 Year 1	Spring 1	Spring 2	Summer 1	Summer 2
	oping 1	oping -		
Lead Enquiry Question (Composite Outcome)	Coding: On the Move – How can we code objects to move?	Coding: Simple Inputs – What is a click and start event?	Digital Literacy: How do we stay secure and safe online?	Computer Science & Information Technology What is an algorithm and why are they useful?
Component Questions (components to be explored throughout the unit)	CQ1: How can we write code to make objects move? CQ2: How can we code objects to move in different directions? CQ3: How can we create click events? CQ4: How can we make multiple movement click events?	CQ1: How can we use start events make an object move? CQ2: How can we create a click event? CQ3: How can we combine click events? CQ4: How can an object react to click events and start events?	CQ1: Why do we have to ask permission to share information? CQ2: What information should we share online? CQ3: How and why do we save work? CQ4: What does copywrite mean? CQ5: How can we communicate online?	CQ1: What is an algorithm? CQ2: How can we use decomposition with sequences? CQ3: What makes a pattern? CQ4: Can we program an algorithm? CQ5: How can we bring a picture to life? (Animation) CQ6: How can we edit and add to an animation?
Assessment Checkpoint	Children who are secure will be able to: ✓ <u>Code - Control</u> Specify the nature of events (such as a single event or a loop). ✓ <u>Code - Events</u> Specify user inputs (such as clicks) to control events.	 Children who are secure will be able to: ✓ Explain that Code tells an object an action to perform. ✓ Understand these actions are known as events. ✓ Use code to run control events. ✓ Specify the nature of events (such as a single event or a loop). ✓ Specify user inputs (such as clicks) to control events. 	 Children who are secure will be able to: ✓ Know to ask permission and what information to share online. ✓ Why there is a need to save work and rules of copyright. ✓ Use a range of applications and devices in order to communicate ideas, work and messages. 	 Children who are secure will be able to: ✓ Identify the key parts of a sequence. ✓ Create a precise set of instructions. ✓ Identify and explain patterns. ✓ To export a video from a device. ✓ Use animation and draw tools in an application.



	✓ Add text strings, show and	
	hide objects and change the	
	features of an object.	

2023/2024 Year 2	Spring 1	Spring 2	Summer 1	Summer 2
Lead Enquiry Question (Composite Outcome)	Digital Literacy: How does what is posted online affect everyone?	Coding: Buttons and instructions -	Digital Literacy: What online is private and how does it stay private?	Computer Science & Information Technology
Component Questions (components to be explored	CQ1: Why do items stay online when they are posted?	CQ1: How can buttons be used to control an object?	CQ1: What are passwords and how do we use them?	CQ1: How can we use algorithms?
throughout the unit)	CQ2: What are the differences between 'made up' and 'real'.	CQ2: How can we code different buttons to have different actions?	CQ2: what does 'private' mean online?	CQ2: How can we apply algorithms?
	CQ3: Why do we have different settings for devices at home and in public?		CQ3: What risks could be online?	CQ3: How can we select sounds and control when they are heard?
			CQ4: Why does my age matter online?	CQ4: How can we control the duration and volume of sounds?
				CQ5: How can we collect data?
				CQ6: How can we sort and present data?
Assessment Checkpoint	Children who are secure will be able to:	 Children who are secure will be able to: ✓ Know there are different types of input. 	Children who are secure will be able to:	 Children who are secure will be able to: ✓ Say that algorithms are followed exactly.



online will stay up and can be program are also a type of as well as personal and timings.
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2023/2024 Year 3	Spring 1	Spring 2	Summer 1	Summer 2
Lead Enquiry Question (Composite Outcome)	Digital Literacy: What information is shared online?	Coding: Conditional Events (Selection):	Digital Literacy: What risks are there with data online?	Computer Science & Information Technology What code can be used to trigger events?
Component Questions (components to be explored throughout the unit)	CQ1: What can we share online?	CQ1: How can we use more than one conditional hit in code?	CQ1: Why is data private? CQ2: How do companies store our data?	CQ1: why is decomposition useful?



	CQ2: Are there differences between 'belief', 'opinion' and 'fact'? CQ3: How do websites gather information online? CQ4: Can there be negative impacts of too much technology.	CQ2: How can we use conditional hits for specific instructions? CQ3: How can conditional hits make different things happen? CQ4: How can we use several conditional hits in a sequence of code?	CQ3: Why can we not copy other people's work online? CQ4: What risks are there in online communications? CQ5: How do online services work?	CQ2: When would you use abstraction? CQ3: How do I find an error in an algorithm and correct it? CQ4: what is a coding 'condition'? CQ5: How can we code to 'trigger' an event? CQ6: How can we control events and objects?
Assessment Checkpoint	 Children who are secure will be able to: ✓ Say what is ok to share online. ✓ Know that there are differences between a 'belief', 'opinion' and 'fact'. ✓ Know how website gather information online. ✓ Explain that there can be negative impacts of too much technology. ✓ Connect Give examples of the risks posed by online communications. Understand how online services work. 	 Children who are secure will be able to: ✓ Understand sometimes the computer needs to make a decision. ✓ Know that condition means something needs to be true for the action to happen. ✓ Use 'if' or 'when' can specify a trigger. ✓ This is known as 'selection'. ✓ <u>Code - Events</u> Specify conditions to trigger events. ✓ <u>Code - Motion</u> Use specified screen coordinates to control movement ✓ <u>Code - Control</u> Use IF THEN conditions to control events or objects. ✓ <u>Communicate</u> 	 Children who are secure will be able to: ✓ Know why data is kept private and how companies and devices store it. ✓ Explain why copying other people's work from online is not fair. ✓ <u>Connect</u> Give examples of the risks posed by online communications. Understand how online services work. 	 Children who are secure will be able to: ✓ Understand the concept of abstraction. ✓ Explain the meaning of decomposition. ✓ Use Logical reasoning to explain their decisions. ✓ Sometimes the computer needs to make a decision. ✓ Condition means something needs to be true for the action to happen. ✓ Use 'if' or 'when' can specify a trigger. ✓ This is known as 'selection'. ✓ <u>Code - Events</u> Specify conditions to trigger events. ✓ <u>Code - Control</u> Use IF THEN conditions to control events or objects.



	 Use some of the advanced 	
	features of applications and	
	devices in order to communicate	
	ideas, work or messages	
	professionally	

2023/2024 Year 4	Spring 1	Spring 2	Summer 1	Summer 2
Lead Enquiry Question	Digital Literacy: What	Coding: Repetition and Loops -	Digital Literacy: What is digital	Computer Science &
(Composite Outcome)	information about people is		consent and how does this	Information Technology
	online and how can this affect us?		affect copyright?	How can we recognise patterns in data we have collected?
Component Questions	CQ1: What information about	CQ1: How can we code using	CQ1: What are internet	CQ1: How can we recognise
(components to be explored throughout the unit)	people can be searched?	repetition?	services?	patterns?
	CQ2: How can we search online?	CQ2: Why are repetition loops useful?	CQ2: What is consent?	CQ2: How does an online network work?
	CQ3: How do we know what is		CQ3: What is digital consent?	
	accurate and reliable online?	CQ3: How can I use more than		CQ3: how do multiple devices
		one repetition loop?	CQ4: Who can store my data	work on a network?
	CQ4: What are the positives		online?	
	about being online for my health	CQ4: How can I simplify complex		CQ4: How can motion trigger
	and wellbeing?	instructions?	CQ5: What online material is free to use?	an event?
	CQ5: What are the negatives	CQ5: How can I link loops,		CQ5: How can we collect and
	about being online for my health	variables and if statements in		share data?
	and wellbeing?	code?		



2023/2024 Year 5	Spring 1	Spring 2	Summer 1	Summer 2
Lead Enquiry Question	Digital Literacy: Who can	Coding: Random number and	Digital Literacy: Why do apps	Computer Science &
(Composite Outcome)	influence us online and how do	simulations – How can random	request permissions and some	Information Technology
	companies do this?	numbers help create an	request payments too?	
		interactive game?		



Component Questions	CQ1: How can we search	CQ1: What are 'random	CQ1: How can technology	CQ1: What is abstraction and
(components to be explored	individuals online?	numbers' in coding?	improve our health and	why is it useful?
throughout the unit)			wellbeing?	
	CQ2: What is a 'false' perspective	CQ2: Why is the 'x' and 'y' axis		CQ2: Why are sequences
	online?	important to objects?	CQ2: How can technology be a	important in computing?
			detriment our health and	
	CQ3: How do companies 'boost'	CQ3: How can we make objects	wellbeing?	CQ3: How can we create an
	their own products to	move to specific places?		own animation?
	consumers?		CQ3: Why do some apps	
		CQ4: How can 'hit events' include	request payments?	CQ4: How can we edit an
	CQ4: What is 'promoted'	randomisation?		animation?
	content?		CQ4: How do some apps	
		CQ5: How can we create a 'range'	request payments?	CQ5: How can motion trigger
	CQ5: Who can influence us	to control random numbers?		an event?
	online?		CQ5: What permissions do apps	
		CQ6: How can I control the edges	have from us?	CQ6: How can we collect and
		of my screen?		share data?
			CQ6: When can I use other	
			people's work or content?	
Assessment Checkpoint	Children who are secure will be	Children who are secure will be	Children who are secure will be	Children who are secure will be
	able to:	able to:	able to:	able to:
	✓ That there are ways to search	✓ Explain how variables are	 Find different ways 	✓ Understand the term
	about individuals online and	useful for more than just	technology can improve or	'abstraction'.
	this may create a 'false'	keeping track of time or	be a detriment to our	✓ Recognise sequences.
	perspective of them.	tallying a score.	health and well-being.	✓ Recognise patterns.
	✓ Know the benefits and	✓ Know that variables can be	✓ How some apps or games	✓ Use apps to record video.
	limitations of using online	combined with conditional	request payments.	✓ Use apps to edit and
	searches including voice.	events and can also be used	 That apps have permissions 	sequence video.
	✓ Have an understanding of	to create Boolean	and they read our device's	 Understand the roles of
	now content can be boosted	expressions.	data.	different devices on
	or promoted by companies,	 Know that Boolean Automatic and File (house and File	Assess and Justity when to	networks.
	vioggers and influencers.	expressions are like true or	use other's work.	 Know that motion sensors
	• <u>Connect</u>	alse type questions that you	• <u>Connect</u>	can trigger events that are
	• Give examples of the fisks of	Can ask the computer.	• Give examples of the risks of	Arready sequences.
			demonstrate knowledge of how	Coue - sensing
			· ····································	



to minimise risk and report problems. • Understand the effect of online comments and show responsibility and sensitivity when online. • Use the Boolean operators () < (), () = (), () > (), () and (), () or (), Not () to define conditions. • Use the Reporter operators () + (), () - (), () * (), () / () to perform (), () - (), () * (), () / () to perform (), () - (), () * (), () / () to perform (), () - (), () * (), () / () to perform • Choose the most suitable applications and devices for the purposes of communication. • Use many of the advanced features in order to create high quality, professional or efficient communications. ✓ <u>Connect</u> • Collaborate with others online on sites approved and moderated by teachers.				
problems.(), () = (), () > (), () and (), () or (), Not () to define conditions. • Use the Reporter operators () + (), () - (), () * (), () / () to perform calculations. • Use the Reporter operators () + (), () - (), () * (), () / () to perform calculations. • Communicate • Choose the most suitable applications and devices for the purposes of communication. • Use many of the advanced features in order to create high quality, professional or efficient communications. • Collaborate with others onlineproblems. • Understand and demonstrate knowledge that it is illegal to download copyrighted material, including music or games, without express written • Understand the effect of online comments and show responsibility and sensitivity when online.sensing proximity or by waiting for a user input (such as proximity to a specified colour or a line or responses to questions). • Collect Devise and construct databases using applications designed for this purpose in areas across the curriculum.	to minimise risk and report	 Use the Boolean operators () < 	to minimise risk and report	Create conditions for actions by
 Understand the effect of online comments and show responsibility and sensitivity when online. Not () to define conditions. Use the Reporter operators () + (), () - (), () * (), () / () to perform calculations. Communicate Choose the most suitable applications and devices for the purposes of communication. Use many of the advanced features in order to create high quality, professional or efficient communications. Collaborate with others online on sites approved and moderated by teachers. 	problems.	(), () = (), () > (), () and (), () or (),	problems.	sensing proximity or by waiting
comments and show responsibility and sensitivity when online.• Use the Reporter operators () + (), () - (), () * (), () / () to perform calculations.knowledge that it is illegal to download copyrighted material, including music or games, without express written permission, from the copyright applications and devices for the purposes of communication. • Use many of the advanced features in order to create high quality, professional or efficient communications.knowledge that it is illegal to download copyrighted material, including music or games, without express written permission, from the copyright holder.proximity to a specified colour or a line or responses to questions).• Use the Reporter operators () + (), () - (), () * (), () () to perform calculations.whould copyrighted material, including music or games, without express written permission, from the copyright holder.or a line or responses to questions).• Use many of the advanced features in order to create high quality, professional or efficient communications.• Understand the effect of online comments and show responsibility and sensitivity when online.• Understand the effect of online comments and show responsibility and sensitivity when online.• Understand the effect of online comments and show responsibility and sensitivity when online.	 Understand the effect of online 	Not () to define conditions.	 Understand and demonstrate 	for a user input (such as
responsibility and sensitivity when online.(), () - (), () * (), () / () to perform calculations.download copyrighted material, including music or games, without express written permission, from the copyright holder.or a line or responses to questions).<Communicate • Choose the most suitable applications and devices for the purposes of communication. • Use many of the advanced features in order to create high quality, professional or efficient collaborate with others online on sites approved and moderated by teachers.or a line or responses to questions). ✓ Collect Devise and construct databases using applications designed for this purpose in areas across the curriculum.	comments and show	 Use the Reporter operators () + 	knowledge that it is illegal to	proximity to a specified colour
when online.calculations. ✓ Communicateincluding music or games, without express writtenquestions). ✓ Collect• Choose the most suitable applications and devices for the purposes of communication. • Use many of the advanced features in order to create high quality, professional or efficient communications. ✓ Connect • Collaborate with others online on sites approved and moderated by teachers.including music or games, without express written permission, from the copyright holder.permission, from the copyright bolder.Devise and construct databases using applications designed for this purpose in areas across the curriculum.	responsibility and sensitivity	(), () - (), () * (), () / () to perform	download copyrighted material,	or a line or responses to
✓ Communicatewithout express written✓ Collect• Choose the most suitable applications and devices for the purposes of communication. • Use many of the advanced features in order to create high quality, professional or efficient communications. ✓ Connect • Collaborate with others online on sites approved and moderated by teachers.without express written permission, from the copyright holder. • Understand the effect of online comments and show responsibility and sensitivity when online.Devise and construct databases using applications designed for this purpose in areas across the curriculum.	when online.	calculations.	including music or games,	questions).
 Choose the most suitable applications and devices for the purposes of communication. Use many of the advanced features in order to create high quality, professional or efficient communications. ✓ Connect Collaborate with others online on sites approved and moderated by teachers. 		✓ <u>Communicate</u>	without express written	✓ <u>Collect</u>
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purposes of communication.• Understand the effect of online comments and show responsibility and sensitivity when online.this purpose in areas across the curriculum.• Use many of the advanced features in order to create high quality, professional or efficient communications.• Understand the effect of online comments and show responsibility and sensitivity when online.this purpose in areas across the curriculum.• Connect • Collaborate with others online on sites approved and moderated by teachers.• Understand the effect of online comments and show responsibility and sensitivity when online.this purpose in areas across the curriculum.		applications and devices for the	holder.	using applications designed for
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features in order to create high quality, professional or efficient communications. responsibility and sensitivity when online. ✓ Connect when online. • Collaborate with others online on sites approved and moderated by teachers. moderated by teachers.		 Use many of the advanced 	online comments and show	curriculum.
quality, professional or efficient communications. when online. ✓ Connect • Collaborate with others online on sites approved and moderated by teachers. moderated by teachers.		features in order to create high	responsibility and sensitivity	
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moderated by teachers.		on sites approved and		
		moderated by teachers.		

2023/2024 Year 6	Spring 1	Spring 2	Summer 1	Summer 2
Lead Enquiry Question	Digital Literacy: How do we	Coding: Objects and properties:	Digital Literacy: Why do people	Computer Science &
(Composite Outcome)	minimise and report risks online?	How can we use the properties of	including companies want to	Information Technology: How
		objects to create games?	control and access data?	can we apply computing skills in
				the real world?



Component Questions	CQ1: What does influence mean?	CQ1: How can we use conditional	CQ1: What is persuasive design	CQ1: What is the difference
(components to be explored		events and co-ordinates to	and why is it used?	between the internet and the
throughout the unit)	CQ2: What does manipulation	control objects?		WWW?
	mean?		CQ2: What are the pressures	
		CQ2: how can we use object	we face online?	CQ2: What is logical reasoning
	CQ3: What does persuasion	properties to set parameters?		and how can we apply it?
	mean?		CQ3: How can we manage our	
		CQ3: How can co-ordinates be	passwords correctly?	CQ3: How can we collect
	CQ4: How do I check the validity	used to manipulate objects?		reliable information and cross-
	of information?		CQ4: Why do people and	reference sources?
		CQ4: How can variables be used	companies want to gather data	
	CQ5: What is the difference	to control speed and direction?	online?	CQ4: How can we compile this
	between disinformation and			information we have collected?
	misinformation?	CQ5: How can you combine	CQ5: Why is copyright	
		object properties, conditional	important?	CQ5: How can we present
	CQ6: What are the risks of online	events and variables in a game		information in a digital form?
	communities?	situation?		
	CQ7: What can we do to			
	minimise risks online?			
	CQ8: How do we report and flag			
	problems online?			
Assessment Checkpoint	Children who are secure will be	Children who are secure will be	Children who are secure will be	Children who are secure will be
	able to:	able to:	able to:	able to:
	 ✓ define terms "influence, 	✓ <u>Operators</u>	 Recognise and understand 	 Understand what the
	manipulation and	• Use the Boolean operators: ()	the pressures of technology	internet is.
	persuasion".	< (), () = (), () > (), () and (), ()	and persuasive design.	 Understand the difference
	 Analyse and evaluate the 	or(), Not() to define	✓ Know that there are ways	between the internet and
	validity of facts.	conditions.	to manage passwords and	the worldwide web.
	 Understand the difference 	• Use the Reporter operators:	that there are people	 Solve problems using
	between disinformation and	() + (), () - (), () * (), () / () to	online who want to gather	logical reasoning.
	misinformation.	perform calculations.	data.	✓ Recognise patterns.
	✓ <u>Connect</u>	• Pick Random () to (), Join () (),	✓ Explain the importance of	✓ Understand the roles of
	 Give examples of the risks of 	Letter () of (), Length of (), ()	copyright.	different devices on
	online communities and	Mod () This reports the	✓ <u>Connect</u>	networks.



	 demonstrate knowledge of how to minimise risk and report problems. Understand the effect of online comments and show responsibility and sensitivity when online. 	 remainder, after a division calculation, Round (), () of (). <u>Communicate</u> Choose the most suitable applications and devices for the purposes of communication. Use many of the advanced features in order to create high quality, professional or efficient communications. <u>Connect</u> Collaborate with others online on sites approved and moderated by teachers. 	 Give examples of the risks of online communities and demonstrate knowledge of how to minimise risk and report problems. Understand and demonstrate knowledge that it is illegal to download copyrighted material, including music or games, without express written permission, from the copyright holder. Understand the effect of online comments and show responsibility and sensitivity when online. 	 ✓ <u>Connect</u> Understand how simple networks are set up and used. ✓ <u>Code</u> Sound – upload sounds from a file and edit them. Add effects such as fade in and out and control their implementation. Draw - combine the use of pens with movements to create interesting effects. ✓ <u>Collect</u> select appropriate applications to devise, construct and manipulate data and present it in an effective and professional manner.
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