Computing Medium Term Plan

EYFS

Computing is not assessed as part of the Development Matters Framework. Although there is not an outcome, the children are exposed to Computing throughout the Early Years beginning with understanding the function of a switch for example the use of a torch or camera. This progresses further by the children exploring how a Bee bot can move and understanding how to code the Bee bot on a journey. (Computer Science.) The children are exposed to technology through the use of the interactive whiteboards and age-appropriate programmes when using the iPads, such as making marks and changing colours, progressing to creating an illustration. (Digital Literacy) The children are taught the importance of e-safety, understanding basic warning signs and to always seek an adult when they are unsure. (Safe Use) Voor 1

Year 1						
Digital Literacy Data Computer Science Multimedia Safe Use (Ongoing Throughout Every						
Key Concept – Information and Presentation	Key Concept – Data Handling	Key Concept – Algorithms	Key Concept – Story Telling	Key Concept – Privacy		
Curricular Goal	ricular Goal Curricular Goal		Curricular Goal	Curricular Goal:		
To use the JIT programme to add pictures and text on a page.	Use the JIT programme to display information using pictographs.	Create a series of instructions and plan a journey for an on	Make a short animation using a piece of clip art	To understand the term E-Safety and how to keep personal		
arning Objective: Learning Objective:		screen turtle/sprite.		information private		
To be able to insert clipart	To be able to insert clipart To be able to display information in a variety of ways using 		• To be able to use software to make a short animation.	Learning Objective:		
• To be able to find and insert images from the internet (JIT)	TIL	 To be able create a series of instructions for an on-screen 	• To be able to animate using clip art.	To be able to understand the importance of using		
To be able to re-size images	• To be able to understand how computers can measure	turtle/sprite.	• To be able to use technology to take pictures of videos.	technology safely.		
To be able to change font, colour and size	changes in temperature.	• To be able to plan a journey for an on-screen turtle/sprite.	To be able to use technology to record.	Substantive Knowledge: (Sticky Knowledge)		
 To be able to use the shift key for capital letters and space 	To be able to create pictograms to present data.	• To be able to debug a journey to reach a goal.	Substantive Knowledge: (Sticky Knowledge)	(To know and remember)		
har for spaces between words	Substantive Knowledge: (Sticky Knowledge)	Substantive Knowledge: (Sticky Knowledge) (To know and remember)		Understand the importance of using technology safely.		
 To be able to log on save and load work 	(To know and remember)	(To know and remember)	Understand how technology allows people to take pictures or	Disciplinary Knowledge:		
Substantive Knowledge: (Sticky Knowledge)	Data is information that has been translated into a form that is	Know how to code a journey following an icon.	videos	(Being a technician)		
(To know and remember)	efficient for movement or processing	Disciplinary Knowledge:	Disciplinary Knowledge:	Know what the term 'E-Safety' means.		
Digital literacy nieces are designed to engage a reader for a	Understand that computers can measure data including	(Beina a aamina desianer)	(Being an animator)	Keep personal information private		
nurnose	weather	Log on to J2e	Know how to animate using 1 niece of clin art	Key Vocabulary:		
Saving digital work means the work is not lost	Disciplinary Knowledge:	Plan a journey	To use technology to take nictures or videos	Private, personal information, safe, internet		
Disciplinary Knowledge:	(Being a data analyst)	Programme a sprite	To use technology to take pictures of videos.			
(Being a digital author)	Log on and access IIT on 12e	Programme a sprite to go on the journey	Key Meeshulery			
Use the shift key, space bar and back space.	Display data on a IIT programme	Debug potential errors for sprite on journey	Animata Tachnology			
Log on open save work and publish	Make nictograms to present data	Key Vocabulary:	Animate, recinology			
Access work from shared files	Koy Vocabulary:	Algorithm, bug, debug.				
Create and resize nictures using paint tools internet images and	Granh					
clip art	Graph					
<u>Clip all.</u>						
Key Vesebulery						
Leg on leg off save chift key onen snace har hack snace slin						
Log on, log on, save, shirt key, open, space bar, back space, clip						
dit.						
		Vear 2				
		Year 2				
Digital Literacy	Data	Year 2 Computer Science	Multimedia	Safe Use (Ongoing Throughout Every Unit)		
Digital Literacy Links to prior learning: Recap how to add pictures and text on a	Data Links to prior learning: To explain how to use JIT programme to	Year 2 Computer Science Links to prior learning: To explain a series of instructions	Multimedia Links to prior learning: To explain what an animation is.	Safe Use (Ongoing Throughout Every Unit) Links to prior learning: Explain the term E-Safety.		
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Digital Literacy Data		Computer Science	Multimedia	Safe Use (Ongoing Throughout Every Unit)	
Links to prior learning: Explain what an e-book is.	Links to prior learning: Explain how to use a JIT programme to	Links to prior learning: Explain what an algorithm is.	Links to prior learning: Explain what an animation is.	Links to prior learning: Explain what Esafety is and the purpose	
Key Concept – Information and Presentation	input data in a bar chart or pie chart	Key Concept – Algorithms	Key Concept – Story Telling	of it.	
Curricular Goal:	Key Concept – Data Handling / Data Logging	Curricular Goal:	Curricular Goal:	Key Concept – Personal Safety	
Publish a non-narrative piece of writing with an audio	Curricular Goal:	Use coding to create a simple game using J2E level 2	To be able to create an animation using a webcam	Curricular Goal:	
commentary using the J2E programme.	To record information about light, temperature or sound and	Learning Objective:	Learning Objective:	To make a presentation to explain how to game on line safely.	
Learning objective:	producing a graph.	 To be able to code a game incurring commands. 	• To be able to create an animation using a variety of tools.	Learning Objective:	
To be able to use a variety of tools to edit, and publish a	Learning Objective:	Substantive Knowledge: (Sticky Knowledge)	Substantive Knowledge: (Sticky Knowledge)	To be able to identify and explain how to game online	
non-narrative piece of writing.	 To be able to use a variety of data to create a branching 	(To know and remember)	(To know and remember)	safely.	
Substantive Knowledge: (Sticky Knowledge)	database.	Understand how to use different aspects of coding.	Effectively use an art programme to explore brush sizes, fills and	Substantive Knowledge: (Sticky Knowledge)	
(To know and remember)	Substantive Knowledge: (Sticky Knowledge)	Disciplinary Knowledge:	other effects.	(To know and remember)	
Be able to complete the process of choosing then altering text if	(To know and remember)	(Being a gaming designer)	Disciplinary Knowledge:	Use technology safely.	
writing electronically.	Understand how branches help classify areas and can be used for	Use keys to control a sprite	(Being an animator)	Disciplinary Knowledge:	
Disciplinary Knowledge:	multiple purposes.	Use if/then to code an event when 2 sprites collide.	Programme a sprite, focusing on different directions.	(Being a technician)	
(Being a digital author)	Disciplinary Knowledge:	Code on-screen instructions for the user.	Programme a sprite to visit a different location in order.	Explain to others why it is important to keep personal	
Know how to type special characters using shift – () + " etc.	(Being a data analyst)	Key Vocabulary:	Add message to sprite.	information private.	
Know how to spellcheck a piece of text.	Connect data loggers to apps.	If/then, command, sequence, repeat, loop.	Key Vocabulary:	State where to go for help if concerned when using technology	
Know how to take a screen shot.	Know how to interpret graphs from data loggers.		Webcam, filters.	(who to speak to).	
Insert pictures, resize, crop and reshape them to enhance their	Draw a graph.			Express the dangers when working using technology and how to	
work.	Use a premade database to answer a question.			identify them.	
Key Vocabulary:	Use microscopes to capture and save magnified images.			Key Vocabulary:	
Dash, sign +, speech marks "", pound sign, spell check, screen	Use a pre-prepared database to draw charts			Online danger, online gaming, digital footprint, appropriate.	
shot, crop, audio, document.	Use a pre-prepared database to search for information using a				
	single field search.				
	To classify objects using a branching database.				
	Key Vocabulary:				
	Data loggers, database, classify.				

Year 4					
Digital Literacy	Data	Computer Science	Multimedia	Safe Use (Ongoing Throughout Every Unit)	
Links to prior learning: Explain everything you know about how	Links to prior learning: Explain what the purpose of a data logger	Links to prior learning: Explain possible obstacles in a game.	Links to prior learning: Explain the purpose of a webcam to	Links to prior learning: Explain steps to keep safe when gaming	
to edit a JIT programme.	is.	Key Concept – Algorithms	create an animation.	online.	
Key Concept – Information and Presentation	Key Concept – Data Handling / Data Logging	Curricular Goal:	Key Concept – Story Telling and Virtual Locations	Key Concept – Personal Safety	
Curricular Goal:	Curricular Goal:	Create a game to achieve more than one goal on J2E – Level 2	Curricular Goal:	Curricular Goal:	
Make an online presentation on J2E using appropriate and	Use different software to construct a graph. Use a data logger to	Learning Objective:	Explore using green screen technology and create an animation	Create a set of E-Safety rules that can be followed at home and	
carefully selected complimentary music.	record more than one of light, temperature or sound and	• To be able to use the crumble controller to code software.	with multiple characters for a purpose.	at school and explain why these are important.	
Learning objective:	produce a graph and interpret the results.	Substantive Knowledge: (Sticky Knowledge)	Learning Objective:	Learning Objective:	
• To be able to use a series of functions to create an online	Learning Objective:	(To know and remember)	To be able to create an animation.	To be able to explain the importance of E-Safety.	
poster.	To be able to analyse data from a data logger.	Begin to use Crumble Controller to code software to mimic a	To be able to successfully use the green screen.	Substantive Knowledge: (Sticky Knowledge)	
 To be able to know how to type special characters using 	To be able to interpret the results on a graph.	real-life situation. (E.g. an alarm, police car lights.)	Substantive Knowledge: (Sticky Knowledge)	(To know and remember)	
shift (_) (+).	 To be able to use a spreadsheet to draw a graph. 	Disciplinary Knowledge:	(To know and remember)	Recognise acceptable and unacceptable behaviour when using	
 To know how to spellcheck a piece of text. 	• To be able to use simple formulae to calculate totals in a	(Being a gaming designer)	How to use an art programme to explore brush sizes, fills and	technology. Understand how they should act when using	
To be able to know how to take a screen shot.	spreadsheet.	Understand the component of circuits and crumble controller.	other effects.	technology and what apps are suitable for different age groups.	
• To be able to insert pictures, resize, crop and reshape them	To be able to use pre-made databases to search for	Construct a circuit using the crumble.	Disciplinary Knowledge:	Disciplinary Knowledge:	
to enhance text.	information with multiple criteria.	Incorporate a light source (sparkle) to the crumble.	(Being an animator)	(Being a technician)	
To be able to select appropriate music.	Substantive Knowledge: (Sticky Knowledge)	Code in a buzzer to the crumble.	Using the cut and paste tool, create a background (weather	Understand that not everything on the internet is true or safe.	
• To be able to embed music to a presentation.	(To know and remember)	Add a switch to crumble controller.	themed).	Understand the potential threat when gaming online with a live	
Substantive Knowledge: (Sticky Knowledge)	Be able to use data loggers and the importance of them in the	Use crumble to combine to create an on-screen obstacle.	Using the paint tool.	chat function.	
(To know and remember)	wider world.	Key Vocabulary:	Inserted in to the green screen technology on iPads.	Create a set of E-Safety rules for the class to follow at school and	
Select a section of text to change the appearance of the font for	Disciplinary Knowledge:	Variable.	Recorded videos as weather forecaster.	at home.	
<u>a purpose – colour, size, design.</u>	(Being a data analyst)		Key Vocabulary:	Key Vocabulary:	
Published a non-narrative pieces of writing can include audio	Using J2Data draw a graph accurately.		Green screen, programme, animation.	Live chat, acceptable, unacceptable, reliability, potential threat,	
commentary.	Using J2Office follow a simple formulae to calculate totals.			filtering.	
Disciplinary Knowledge:	Incorporate				
(Being a digital author)	Use pre-made databases to search for information with multiple				
Using the shift key, type special characters.	<u>criteria.</u>				
Proof read work and check corrections using spell check.	Key Vocabulary:				
Use the Shift + Ctrl + Show windows keys to take a screenshot.	Sensor, spreadsheet, formula, search, criteria, pre-made				
Use J2Office to insert pictures.	database, filtering.				
Select and embed music to presentation.					
Using J2Office use the appropriate shortcuts to resize, crop and					
reshape text.					
Key Vocabulary:					
Spell-check, shift, screen shot, embed					
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Teal S					
Digital Literacy Data		Computer Science	Multimedia	Safe Use (Ongoing Throughout Every Unit)	
Links to prior learning: What shortcuts can you use on the Links to prior learning: Write three ways you can interpret L		Links to prior learning: Explain the steps needed to set up the	Links to prior learning: Explain the purpose of green screen	Links to prior learning: Explain the rules to follow when online.	
keyboard? information from a data logger.		crumble.	technology.	Key Concept – Personal Responsibility	
Key Concept – Information and Presentation Key Concept – Data Handling / Data Logging		Key Concept – Algorithms	Key Concept – Virtual Locations	Curricular Goal:	
Curricular Goal: Curricular Goal:		Curricular Goal:	Curricular Goal: To be able to write a code of conduct for working of		
Create and maintain a personal blog.			To be able to use green screen technology to produce a video	Learning Objective:	
Learning objective:			presentation	To be able to explain how to stay safe online.	

To be able to understand the purpose of a blog.	Use data loggers to formulate and test a hypothesis. Critique the	Code to create a game where actions incur penalties on J2E –	Learning Objective:	To be able to know how to manage content safely.
 To be able to create a personal blog. 	benefits of using a given spreadsheet to aid financial	Level 3.	To be able to produce an interactive video presentation.	• To be able to know how and when to comment on a blog.
 To be able to maintain a personal blog. 	management.	Learning Objective:	To be able to create or select appropriate video clips.	To be discerning about information taken from the
Substantive Knowledge: (Sticky Knowledge)	Learning Objective:	 To be able to create a game. 	• To be able to choose suitable backgrounds when using the	internet.
(To know and remember)	 To be able to use data loggers to formulate and test a 	• To be able to create a game where actions incur penalties.	green screen technology.	Substantive Knowledge: (Sticky Knowledge)
Understand which program to use.	hypothesis.	To be able to code the crumble controller to enhance a	• To be able to create a video presentation using the green	(To know and remember)
Know the process to create a personal blog.	• To be able to adapt a premade spreadsheet to investigate a	product.	screen technology.	Understand the importance of E-Safety and how to stay safe
Create hyperlinks and QR codes.	financial task.	To be able to code the crumble to respond to an input	• To be able to review and evaluate videos or animations.	online.
Disciplinary Knowledge:	To be able to contribute information to a collaborative	device. E.g. A switch.	Substantive Knowledge: (Sticky Knowledge)	Understand what data should and shouldn't be shared online.
(Being a digital author)	database.	Substantive Knowledge: (Sticky Knowledge)	(To know and remember)	Disciplinary Knowledge:
Log on and establish a blog.	 To be able to debug errors in databases. 	(To know and remember)	Green screen technology can enable video presentations to	(Being a technician)
Manage and maintain their own blog.	Substantive Knowledge: (Sticky Knowledge)	Create a coded game.	become more engaging.	Know how to comment on a blog.
Embed video clips into J2e to add to their blog.	(To know and remember)	Understand where coding can be applied in the wider world.	How green screen technology is used in all aspects of media.	Know when it is appropriate to comment on a blog.
Create and add posts to their blog.	To understand the importance of data loggers in the wider	Disciplinary Knowledge:	Disciplinary Knowledge:	Understand the potential dangers when taking information taken
Add a new category to their blog.	world.	(Being a gaming designer)	(Being an animator)	from the internet.
Add a new category to their blog.	To identify when data loggers may be used.	Understand every component of the Crumble Controller.	Using the appropriate programme create/select video clips.	Write a code of conduct for KS1 to explain the rules of E-Safety.
Add and manage comments	Disciplinary Knowledge:	Assemble the Crumble Controller correctly.	Understand how to use the green screen technology.	Key Vocabulary:
Embed a video correctly	(Being a data analyst)	Use the crumble to enhance the quality of a product.	Using the green screen, use a relevant background (video or	Blog, comment, responsibility.
Key Vocabulary:	Connect data logger to a computer.	Code the Crumble Controller to respond to an input device (E.g.	picture)	
Template control key select conv. cut paste header footer	Measure a variety of data (light, temperature, sound).	A switch.)	Create a video presentation using the green screen.	
embed hyperlinks OR code	Collect the data found in a table.	Key Vocabulary:	Key Vocabulary:	
embed, nyperinks, en code.	Graph the data found using appropriate software.	Input, output.	Transitions, green screen.	
	Interpret the data to test the hypothesis.			
	Key Vocabulary:			
	Formulae, collaborative, database,			

Year 6

Digital Literacy	Data	Computer Science	Multimedia	Safe Use (Ongoing Throughout Every Unit)	
Links to prior learning: What is a blog?	Links to prior learning: Explain the purpose of a database.	Links to prior learning: Explain the purpose of a switch in a	Links to prior learning: Explain where a green screen is used.	Links to prior learning: Explain what data should and shouldn't	
Key Concept – Information and Presentation	Key Concept – Data Handling / Data Logging	crumble kit.	Key Concept – Film Making	be shared online.	
Curricular Goal:	Curricular Goal:	Key Concept – Algorithms	Curricular Goal:	Key Concept – Personal Protection	
Create a presentation for a purpose incorporating visual, sound	Make decisions about when to use data loggers to investigate	Curricular Goal:	To be able to create a video with various green screen locations	Curricular Goal:	
and text elements that includes appropriate software using	scientifically. Create and design a spreadsheet with a specific	Construct a game to include a timer or a score using J2E – Level 3	for a given purpose	Construct a code of conduct for working online, messaging and	
J2Office.	purpose in mind.	Learning Objective:	Learning Objective:	using social media	
Learning objective:	Learning Objective:	To be able to code a game where actions incur penalties.	 To be able to create an interactive video. 	Learning Objective:	
• To be able to understand and use a keyboard effectively.	• To be able to choose a theme and the choice of software to	Substantive Knowledge: (Sticky Knowledge)	Substantive Knowledge: (Sticky Knowledge)	• To be able to produce a code of conduct for staying safe	
 To be able to create a multi-page presentation. 	create a multi-page presentation.	(To know and remember)	(To know and remember)	online.	
To be able to incorporate visual, sound and text elements	 To be able to create a multi-page presentation. 	How to code to create a game where actions incur penalties.	Green screen technology can enable video presentations to	Substantive Knowledge: (Sticky Knowledge)	
to a multi-page presentation.	 To be able investigate and evaluate where data bases are 	Understand how coding can be used in the wider world.	become more engaging.	(To know and remember)	
To be able to create an interactive presentation using	used in the wider world and understand their structure.	Disciplinary Knowledge:	How green screen technology is used in all aspects of media.	To understand the importance of E-Safety.	
appropriate software. Substantive Knowledge: (Sticky Knowledge)		(Being a gaming designer)	That green screen technology can be used in a variety of formats.	Be able to explain how to protect devices from threats and the	
Substantive Knowledge: (Sticky Knowledge) (To know and remember)		Understand how to use a crumble controller.	Disciplinary Knowledge:	potential dangers of using aspects of IT.	
(To know and remember)	Choose appropriate software for a given purpose and audience.	Enhance the quality of a product.	(Being an animator)	Justify how to manage risks when working online.	
Understand how to choose appropriate software for a given	Create a multi-page presentation incorporating visual, sound and	Code the Crumble Controller to respond to an input device. Understand how to use the green screen technology.		Disciplinary Knowledge:	
purpose and audience and make discerning choices about word	text elements.	Key Vocabulary:	Embed a picture/video to use with the green screen technology.	(Being a technician)	
processing to impact the outcome.	Disciplinary Knowledge:	Timer, score.	Embed video into a file.	Express the importance of E-Safety.	
Disciplinary Knowledge: (Being a data analyst)			Edit videos to ensure high quality.	Create a code of conduct for working online and messaging	
(Being a digital author) Use a keyboard efficiently.			Key Vocabulary:	electronically.	
Understand the different aspects of a keyboard. Select the appropriate software for multi-page presentation.			Purpose, independence.	Create a code of conduct for using social media for the whole	
Use a keyboard effectively Justify the choice of using that particular software.				<u>school.</u>	
Create a presentation using J2Office. Make discerning choices about word processing to impact the				Key Vocabulary:	
Incorporate elements to presentation. (Visual, sound and text).				Manage risk, social media, virus.	
Key Vocabulary: Key Vocabulary:					
Word processing, menus, presentation.	Investigate, fields.				

				Computing			
	ASD	Working Memory	Dyslexia	SEMH	Speech Language & Communication	Physical Difficulties	Hearing Impaired
•	Pupils on the autistic spectrum may become deeply involved in working in isolation on a computer. They will benefit from clear preparation and support when returning to a group. Programs such as Kar2ouche: Social Communication allow pupils with an autistic spectrum disorder (and others with communication and interaction difficulties) to 'walk their way' through scenarios involving social communication in everyday situations. The package contains tools with which adults can create appropriate scenarios.	 Revisiting a mind map of the same area of learning, say after three weeks of studying an ICT topic, can be a good way of assessing – through the added 'branches' of the map – how pupils' understanding of concepts is developing. This approach can be particularly valuable for pupils for whom oral and written communication present a barrier, as pictures and symbols can be included. Display pupils' work, assessment criteria for tasks, or projects and posters to encourage pupils' understanding or trigger their memory. 	 Revisiting a mind map of the same area of learning, say after three weeks of studying an ICT topic, can be a good way of assessing – through the added 'branches' of the map – how pupils' understanding of concepts is developing. This approach can be particularly valuable for pupils for whom oral and written communication present a barrier, as pictures and symbols can be included. 	 Reduce the possibility of frustration at not being able to use programs to achieve an objective by having 'how-to' posters on the wall. 	 using symbol-processing software or a picture communicator for pupils with speech and language communication needs Programs such as Kar2ouche: Social Communication allow pupils with an autistic spectrum disorder (and others with communication and interaction difficulties) to 'walk their way' through scenarios involving social communication in everyday situations. The package contains tools with which adults can create appropriate scenarios. 	 using head switches, touch screens, or an alternative mouse or keyboard for pupils with reduced motor skills, or adjusting the screen resolution, or using a bigger screen, for pupils with a visual impairment 	 video presentations have subtitles for deaf or hearing impaired pupils and those with communication difficulties, where required.

Kingswood Parks

