

CURRICULUM MAP / LTP

Computing - EYFS



The Computing Curriculum is divided into 3 areas:

Computer Science	PROBLEM SOLVING:
'	1. Understand what algorithms are.
	2. Understand that algorithms are implemented as programs on digital devices.
	3. Understand that programs execute by following precise and unambiguous instructions.
	PROGRAMMING:
	1. Create simple programs.
	2. Debug simple programs.
	LOGICAL THINKING:
	1. Use logical reasoning to predict the behaviour of own programs.
	2. Use logical reasoning to predict the behaviour of others' programs
Information Technology	CREATING CONTENT:
5 55	1. Use technology purposefully to create digital content.
	2. Use technology purposefully to store digital content.
	3. Use technology purposefully to retrieve digital content.
	4. Use technology purposefully to organise digital content.
	5. Use technology purposefully to manipulate digital content.
Digital Literacy	DIGITAL CREATIVITY:
	1. The ability to create multimedia content.
	DIGITAL TECHNOLOGY:
	1. Recognise common uses of technology.
	2. Researching using the internet and search engines.
	DIGITAL CITIZENSHIP (e-Safety):
	1. Use technology safely.
	2. Keep personal information private.
	3. Use technology respectfully.
	4. Identify where to go for help when you have concerns.



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The aim at Dropmore Infant School is to have 6 dedicated Computing units per academic year (2 per term) as well as covering e-Safety at the start of every term. In addition to this, children should be taught basic computing skills and have plenty of opportunity to use technology to support their learning in literacy, maths and all other areas of the curriculum.

Each Year group will have the freedom to choose which units to teach, depending on the topics covered and the learning focus (CS, IT, DL). The units can be chosen from 3 sources/schemes:

- Dropmore Planning
- Switch on Computing by Year Group
- Knowsley Scheme of Work by Year Group

At Dropmore we include at least two effective learner objectives to be the focus for the term, in addition to the specific objectives in the Computing activities.

Ability to work	Ability to work	Resilience and	Creativity	Academic
independently	with each other	Challenge		Progress
I do not rely on the teacher	I am willing to work with	I attempt any task and try	I can come up with ideas	I am enthusiastic about the
or other children for support.	others.	hard.	and use these ideas to help	lesson and happy to
			myself.	contribute.
I can take independent notes	I share thoughts and ideas	I ask relevant questions of		
or photographs at	with the rest of the group or	the teacher.	I am keen to express my	I am keen to improve my
appropriate times to support	class.	I engage in different	ideas in different ways.	knowledge and
my learning.		activities and small		understanding.
	I communicate appropriately	competitions, accepting and	I take other's ideas into	
	and put forward my ideas	embracing challenges.	account alongside my own.	I understand how to
	within a group.			improve.
		I see difficult tasks as a	I use a wide variety of	
	I can give others constructive	challenge, something I must	sources effectively.	
	feedback on their ideas.	work at and learn from.		



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	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
	For each half term ch					
Unit / Activities	 For each half term, choose: One Dropmore Planning unit OR One of the 6 units from Knowsley Scheme of Work OR Up to 4 of the 24 activities from Switched on Computing Ensure equal coverage of 3 areas (CS, IT, DL) when choosing your units or activities. For more information on the units and activities see below. Detailed plans and resources for all units and activities can be found here: T:\CURRICULUM\COMPUTING\PLANNING 					
Continuous Provision	Every Day -Classroom Co	omputer ready for use ind/or unit of work, have o	5			
e-Safety	DigiDuck		Smartie the Penguin		Discovery Education	
Basic Skills Computer	Open Paint App on computer and draw. Use mouse to navigate and draw	Complete keyboard name sheet (Basic Skills Worksheet -Username)	Open Word on computer Use keyboard to type own name	Login to network (Basic Skills lesson Reception Intro)	Closing apps Logoff safely	Login Big Brown Bear typing Logoff
Basic Skills iPad	Draw	Letterjoin	Login / locked screen	Find Apps	Close Apps	Battery Life



Computing - EYFS



KNOWSLEY SCHEME OF WORK EYFS - OVERVIEW OF UNITS

Key Stage	Apptivity Name	Target Skills & Summary	Computing Curriculum
Rec - 1	Little Computers	Activity explaining what is a computer and its peripherals. Children will make their own computer using junk and develop basic computer skills through playing a variety of games.	IT & DL
Rec - 2	Junior Explorers	Children will learn to give sequences of instructions to control Bee-Bots (floor robot). Children will understand that instructions need to be given in a correct order.	CS
Rec - 3	A is for Algorithm	This unplugged activity will demonstrate to children the importance of sequencing by breaking down popular stories into individual elements so children can see the importance of following a sequence. Children will gain an understanding of the term Algorithm.	CS
Rec - 4	Art Attack	Children will experiment with different drawing apps and software across a range of devices whilst being introduced to different styles of digital art. This activity will show children how to find images using the web.	DL
Rec - 5	Fantastic Tales	This is a cross curricula activity with links to both Literacy and Art. Children will learn a popular tale and then re-tell the story by producing their own animation.	DL
Rec - 6	Let's Celebrate	This apptivity should be ideally delivered around the Christmas period as it can be directly linked	



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Computing - EYFS



SWITCHED ON COMPUTING EYFS - OVERVIEW OF ACTIVITIES

Activity	Description	reas of learning and development			
1 - We have confidence	Recording and playing back sounds	ersonal, social and emotional development: self-confidence and self-awareness ne children have the confidence to speak in a familiar group. ther ommunication and language: speaking ommunication and language: listening and attention			
2 - We can take turns	Manipulating objects on screen	Personal, social and emotional development: making relationships The children play cooperatively, taking turns with others. They take account of one another's ideas about how to organise their activity. They show sensitivity to others' needs and feelings, and form positive relationships with adults and other children. Other Communication and language: speaking Expressive arts and design: exploring and using media and materials	IT		
3 - We are successful	Taking digital photographs and combining them with text and sound	Personal, social and emotional development: self-confidence and awareness The children are confident to try new activities and to say why they like some activities more than others. Other Communication and language: speaking Literacy: writing	DL		
4 - We have feelings	Taking and displaying digital photographs	Personal, social and emotional development: managing feelings and behaviour They talk about how they and others show feelings, talk about their own and others' behaviour. Other Expressive arts and design: being imaginative Expressive arts and design: exploring and using media and materials	DL		
5 - We can drive	Physical development: moving and handling Investigating The children negotiate space successfully when playing games with other children, adjusting speed or changing direction to		DL		



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Activity	Description	Areas of learning and development	Computing Curriculum
6 - We are DJs	Controlling digital sound files and videos	nonotiating space	
7 - We can exercise	Using digital timers and thermometers	Physical development: health and self-care The children know that physical exercise makes an important contribution to keeping healthy. Other Language: speaking Physical development: moving and handling	DL
8 - We are healthy	Internet research, opening applications	 Physical development: health and self-care Children know the importance for good health of physical exercise and a healthy diet, and talk about ways to keep healthy and safe. Other Literacy: reading Communication and language: listening and attention 	DL
9 - We can listen	Using technology to communicate verbally	Communication and language: listening and attention The children listen attentively in a range of situations. They give their attention to what others say and respond appropriately while engaged in another activity. Other Personal, social and emotional development: making relationships Expressive arts and design: being imaginative	IT
10 -We can understand instructions	Controlling (kitchen) equipment	olling en) Communication and language: understanding The children follow instructions involving several ideas or actions. They answer 'how' and 'why' questions about their experiences. Other	



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Activity	Description	Areas of learning and development	Computing Curriculum
11 - We can understand messages	Controlling and using sound	Communication and language: understanding Children follow instructions involving several ideas or actions. They answer 'how' and 'why' questions about their experiences and in response to stories and events. Other Communication and language: listening and attention Literacy: reading	DL
12 - We are talkers	Using video cameras to record video clips	Communication and language: speaking The children use talk to organise, sequence and clarify thinking, ideas, feelings and events. They express themselves effectively, showing awareness of listeners' needs. Other Literacy: reading Expressive arts and design: being imaginative	DL
13 - We are digital readers	Choosing and opening applications and engaging with digital texts	Literacy: reading The children read and understand simple sentences. They also read some common irregular words. They demonstrate understanding when talking with others about what they have read. Other Communication and language: listening and attention Communication and language: understanding	IT
14 - We can email	Using email to communicate	Literacy: writing Children write simple sentences, which can be read by themselves and others. Some words are spelled correctly and others are phonetically plausible. Other Communication and language: understanding Personal, social and emotional development: managing feelings and behaviour	IT



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Activity	Description	Areas of learning and development	Computing Curriculum
15 - We can blog	Communicating with digital text	Literacy: writing The children use their phonic knowledge to write words in ways that match their spoken sounds. They also write some irregular common words. They write simple sentences that can be read by themselves and others. Some words are spelled correctly and others are phonetically plausible. Other Understanding the world: the world Understanding the world: people and communities	IT
16 - We can count	Programming a programmable toy	Mathematics: number Children count reliably with numbers from one to 20, place them in order and say which number is one more or one less than a given number. Other Understanding the world: the world Expressive arts and design: exploring and using media and materials	CS
17 - We are designers	Controlling a remote-controlled toy	Mathematics: shape, space and measure Children use everyday language to talk about position and distance to solve problems. Other Communication and language: speaking Personal, social and emotional development: making relationships	CS
18 - We are shape- makers	Using light projectors, switching on technology	Mathematics: shape, space and measure The children use everyday language to talk about size and position. They explore characteristics of everyday objects and shapes and use mathematical language to describe them. Other Communication and language: speaking Expressive arts and design: exploring and using media and materials	IT
19 - We are community members	 9 - We are ommunity of digital photographs Taking and differences between themselves and others, and among families, communities and traditions. 		



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Activity	Description	Areas of learning and development	Computing Curriculum	
20 - We can observe	Taking photographs using a digital microscope	Understanding the world: the world The children know about similarities and differences in relation to objects, materials and living things. Other Communication and language: speaking Communication and language: writing	DL	
21 - We are game players	Opening and closing files	Understanding the world: technology The children recognise that a range of technology is used in places such as homes and schools. They select and use technology for particular purposes. Other Personal, social and emotional development Physical development: moving and handling	IT	
22 - We are creative	Choosing and using tools in an art application	 Expressive arts and design: exploring and using media and material The children safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function. Other Expressive arts and design: being imaginative Understanding the world: technology 	IT	
23 - We can record soundtracks	Recording a sound track	Recording a sound Recording a sound		
24 - We are film producers	Expressive arts and design: being imaginative			



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DROPMORE PLANNING - OVERVIEW OF UNITS

UNIT	Description	Computing Curriculum
Programmable toys	 DIS PROGRAMMABLE TOYS Carousel of 3 activities programming Beebots DIS PROGRAMMABLE TOYS Carousel of 5 activities programming Beebots & Espresso Coding 	CS
Beebots 2021	Progress through 5 stages of programming your Beebot using Dropmore Beebot mats At the end of the unit the children can use precise instructions to control direction and distance moved by a programmable toy.	CS
Scratch Jr 2023	At the end of the unit each child will be confident in using scratch jr to write and run a sequence of instructions to achieve simple objectives. Some children may be able to challenge themselves by experimenting with further functionality and designing their own projects	CS
Stop Motion	The children will create a short movie using the App Quik. They will work in small groups. Using a story board, they will decide on the different frames needed. They will make their own props, backdrops etc.	
Data Handling Data Handling 2023	\sim	
Basic Skills	Login / Logoff, open & save document, mouse and keyboard skills IT	
Online Safety Posters	ne Safety Posters At the end of the unit the children have produced a visually attractive online safety poster by editing I fonts in Word	
At the end of the unit the children will have created a powerpoint presentation about their trip to Mop End. The children will use a (differentiated) template to help them. More able children can add addition information, more slides and animations. The powerpoint presentation can be printed and displayed. A selection of presentations can be shared on the website.		IT & DL
Sharing Hour Invitation	At the end of the unit the children will have created an invitation using Microsoft Publisher. The children will use a (differentiated) template to help them.	IT & DL



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UNIT	Description	Computing Curriculum
Who am I? Who am I? 2023	At the end of the unit the children will have created a 2-page powerpoint presentation 'Who am I?' The first page will contain a self-portrait drawing (using 2paint a picture) and some facts. The second page will reveal their identity with a picture (photograph) and name. See example: 'Who am I? – GS' The children will use a (differentiated) template to help them. More able children can add addition information, more slides and animations. The powerpoint presentation can be printed and displayed. A selection of presentations can be shared on the website.	IT & DL



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PLEASE COMPLETE THIS CURRICULUM MAP FOR EACH ACADEMIC YEAR WITH THE UNITS AND ACTIVITIES COMPLETED AND ANY NOTES OR COMMENTS. PLEASE RETURN THE COMPLETED FORM TO THE SUBJECT LEADER.

	Autumn 1 20xx	Autumn 2 20xx	Spring 1 20xx	Spring 2 20xx	Summer 1 20xx	Summer 2 20xx
Unit / Activities						
Continuous Provision						
e-Safety						
Basic Skills Computer						
Basic Skills iPad						