

## Seamer and Irton CP School Progression of knowledge and skills in Computing Data and Information: Spring 2



## The Data and Information strand is again taught once a year, progressing in both skills and software. Key Stage 1 uses simplified age-appropriate software platforms, progressing to more industry focused software in upper Key Stage 2.

Throughout each half term, pupils are exposed to a range of computing careers linked directly to the cultural capital of our pupils and highlighting that computing can be aspirational and accessible to all. Visits by a diverse range of adults, based within the local community, will provide pupils with clear links to STEM career opportunities. Equity, diversity and inclusion are addressed through highlighting pioneers and influencers who represent a broad and inclusive range of characteristics, alongside those from differing socio-economic and cultural backgrounds, these are annually reviewed to ensure our pupils are exposed to relevant and meaningful experiences.

	EYFS pupils are	Data and	Data and	Data and	Data-and-	Data-and-	Data-and-
Data and	Introduced to	Information -	<u>information –</u>	Informtaion -	information-data-	information-flat-	information-
Information:	basic concepts of	Grouping Data	Pictograms	<b>Branching</b>	logging	<u>file-databases</u>	<u>spreadsheets</u>
	data and			<b>Databases</b>	(link below)		
Spring 2	information						
	handling.	Exploring object	Collecting data in	Branching	Data logging	Flat-file databases	Introduction to
		labels, then using	tally charts and	databases Building	Recognising how	Using a database	spreadsheets
	Counting and	them to sort and	using attributes to	and using	and why data is	to order data and	Answering
	Sorting Activities:	group objects by	organise and	branching	collected over	create charts to	questions by using
	Using simple	properties.	present data on a	databases to group	time, before using	answer questions.	spreadsheets to
	games children		computer.	objects using	data loggers to		organise and
	practice counting			yes/no questions.	carry out an		calculate data.
	and sorting items.				investigation,		
		No. of lessons: 6	No. of lessons: 6	No. of lessons: 6	No. of lessons: 5	No. of lessons: 6	No. of lessons: 6
	Graphing Nature:						
	Pupils will create	Skills and Concept	Skills and Concept	Skills and Concept	Data handling	Skills and Concept	Skills and Concept
	simple graphs	Progression	Progression	Progression	micro:bit	Progression	Progression
	using data	Learning Graph	Learning Graph	Learning Graph		Learning Graph	Learning Graph
	collected from						
	nature walks or						
	classroom						
	observations.						
Vocabulary		object, label,	more than, less	text, images,	data, table, layout,	database, data,	data, collecting,
•		group, search,	than, most, least,	advantages,	input device,	information,	table, structure,

Aspirational	image, property, colour, size, shape, value, data set, more, less, most, fewest, least, the same	common, popular, organise, data, object, tally chart, votes, total, pictogram, enter, data, compare, objects, count, explain, attribute, group, same, different, conclusion, block diagram, sharing	disadvantages, communicate, font, style, landscape, portrait, orientation, placeholder, template, layout, content, desktop publishing, copy, paste, purpose, benefits.	sensor, logger, logging, data point, interval, analyse, dataset, import, export, logged, collection, review, conclusion.	record, field, sort, order, group, search, value, criteria, graph, chart, axis, compare, filter, presentation.	spreadsheet, cell, cell reference, data item, format, formula, calculation, spreadsheet, input, output, operation, range, duplicate, sigma, propose, question, data set, organised, chart, evaluate, results, sum, comparison, software, tools.
Careers Education Including links to Equity, Diversity and Inclusion		Career This: Columbia Generality and Interpret Convolution Composition multise doctators programming, data vanisation. Wage: E.0.00 - 150.000 annualy.	<u>Bitesize</u> <u>Working with data</u> <u>- BBC Teach</u>			<ul> <li>Grant The Its Contract</li> <li>Hart Tay Tay Contract</li> <li>Hart Ray Contract</li> <li>Har</li></ul>
Community experts (Visitors and visits) Supplemented by STEM ambassador visits and online opportunities linked to the termly focus as				Castle Group Ltd – UK Leader in Noise, Vibration, Environmental Measurement & Monitoring Technology, Training & Consultancy Scarborough based	<u>Role models -</u> <u>TechSheCan</u> Jaskiren – Data Analyst at Natwest (online)	

and when				
available				