

<u>EYFS</u>					
Themes Autumn Spring Summer					
Barefoot Computing resources Online Safety and Winter Warmers Online Safety and Springtime Online Safety and Summer Fun					
Within the revised EYFS statutory framework, the Technology strand within Understanding the World has been removed. However, there are opportunities within each area of the framework to enable practitioners to effectively prepare children for studying the computing curriculum. Despite computing not being explicitly mentioned within the Early Years Foundation Stage (EYFS) statutory framework, we provide many opportunities for young children to ut technology to solve problems and produce creative outcomes. In particular, many areas of the framework provide opportunities for pupils to develop their ability to use computational thinking effectively. This is built upon through undertaking projects involving the concepts and approaches suggested by Computing at School's (CAS) Barefoot Computing resources. As the children take part in a variety of tasks with digital devices, they will already be familiar with the device before being asked to undertake tasks related to the key stage one computing curriculum, such as writing and testing a simple program. Not only will children be keen to again use a device they had previously enjoyed using, their cognitive load will also be reduced, meaning they are more likely to succeed when undertaking activities linked to the next stage in their learning.					

	Year 1/2 Year A			
	<u>Autumn term</u>	<u>Spring term</u>	Summer Term	
1 st half term	Technology around us	Digital painting	Moving a Robot	
Sequence of lessons	 Technology in our classroom Using Technology Developing Mouse Skills Using a computer keyboard Developing Keyboard skills Using a computer responsibly 	 How can we paint using computers? Using shapes and lines Making careful choices Why did I choose that? Painting all by myself Comparing computer art and painting 	 Buttons Directions Forwards and backwards Four directions Getting there Routes 	
Vocabulary	Computer, mouse/trackpad, keyboard, screen, click and drag, draw, input device, shift, space bar, safely, responsibly, computer, technology	Painting, primary colours, brush, size, shape tool, fill, line, undo, colour	Forwards, backwards, turn, clear, go, commands, instructions directions, left, right, plan, algorithm, program, route,	
Learning objectives and Skills	 To identify a computer and its main parts To use a mouse in different ways To use a keyboard to type To use the keyboard to edit text To create rules for using technology responsibly 	 To describe what the freehand tools do To use the shape tool and the line tools To make careful choices when painting a digital picture To explain why I chose the tools I used To use a computer on my own to paint a picture To compare painting a picture on a computer and on paper 	 To explain what a command will do To act out a given word To combine forwards and backwards commands to make a sequence To combine of our direction commands to make a sequence To plan a simple program To find more than one solution to a problem 	
2 nd half term	Information technology around us	Digital photography	Robot algorithms	
Sequence of lessons	 What is IT? IT in school IT in the world The benefits of IT Using IT safely Using IT in different ways 	 Taking photographs Landscape or portrait What makes a good photograph? Lighting Effects Is it real? 	 Giving instructions Same but different Making predictions Mats and routes Algorithm design Debugging 	
Vocabulary	Information technology, computer, barcode, scanner/scan,	Device, camera, photograph, capture, image, digital, landscape, portrait,	Instruction, sequence, clear, unambiguous, algorithm, program, order commands,	

		horizontal, vertical, field of view, narrow, wide, format, framing, focal point, subject matter, field of view, compose, natural lighting, artificial lighting, flash, focus, background, foreground, editing, tools, colour, filter, images, Pixlr, format, lighting, changed, real.	prediction, program, artwork, design, route, debugging
Skills	 To recognise the uses and features of information technology To identify information technology in the home To identify information technology beyond school To explain how information technology benefits us To show how to use information technology safely To recognise that choices are made when using information technology 	 To know what devices can be used to take photographs To use a digital device to take a photograph To describe what makes a good photograph To decide how photographs can be improved To use tools to change an image To recognise that images can be changed 	 To describe a series of instructions as a sequence To explain what happens when we change the order of instructions To use logical reasoning to predict the outcome of a program To explain that programming projects can have code and artwork To design an algorithm To create and debug a program that I have written
Computer scie Co2/1.1 un unambiguous Co2/1.2 cre Co2/1.3 us Information te	derstand what algorithms are; how they are imp	imple programs	hat programs execute by following precise and

Co2/1.4 use technology purposefully to create, organise, store, manipulate and retrieve digital content

Co2/1.5 recognise common uses of information technology beyond school

Co2/1.6 use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about material on the internet or other online technologies

	Year 1/2 Year B			
	<u>Autumn term</u>	Spring term	Summer Term	
1st half term	Grouping data	Digital writing	Programming animation	
Sequence of lessons	 Computer systems and networks- Technology around us Creating media- digital painting Programming A – moving a robot Data and information – Grouping data Creating Media – digital writing Programming B – programming animations 	 Exploring the keyboard Adding and removing text Exploring the toolbar Making changes to text Explaining my choices Pencil or keyboard 	 Comparing Tools Joining blocks Make a change Adding sprites Project design Following my design 	
Vocabulary	Object, label, group, search, image, property, colour, size, shape, value, more, less, most, least, fewest, the same, data set.	Word processor, keyboard, keys, letters, numbers, space, backspace, Google docs, text cursor, capital letter, underline, bold, italic, toolbar, font, undo,	Scratch JR, Bee-bot, command, sprite, compare, programming, block, joining, run, program, area, background, delete, reset, algorithm, predict, effect, change, value, instructions, design.	
Learning objectives and Skills	 To label objects To identify that objects can be counted To describe objects in different ways To count objects with the same properties To compare groups of objects To answer questions about groups of objects 	 To use a computer to write To add and remove text on a computer To identify that the look of the text can be changed on a computer To make careful choices when changing txt To explain why I used the tools that I chose To compare writing on a computer with writing on paper 	 To choose a command for a given purpose To show that a series of commands can be joined together To identify the effect of changing a value To explain that each sprite has its own instructions To design the parts of a project To use my algorithm to create a program 	
2 nd half term	Pictograms	Making music	An introduction to quizzes	
Sequence of lessons	 Counting and comparing Enter the data Creating pictograms What is an attribute? Comparing people Presenting information 	 How music makes us feel Rhythms and patterns How music can be used Notes and tempo Creating digital music Reviewing and editing music 	 ScratchJr recap Outcomes Using a design Changing a design Designing and creating a programme Evaluating 	

Vocabulary	Data, more than, less than, most, least, organise, object, tally chart, votes, total, pictogram, enter, compare, count, explain, more common/least common, attribute, different, conclusion, most/least popular, block diagram, sharing,	Music, war, peace, quiet, loud, feelings, emotions, pattern, rhythm, pitch, tempo, notes, create, pulse/beat, open, edit	Sequence, command, program, run, start, outcome, predict, blocks, sprite, algorithm, design, modify, change, features, evaluate, match, build, actions, project, compare.
Skills	 To recognise that we can count and compare objects using tally charts To recognise that objects can be represented as pictures To create a pictogram To select objects by attribute and make comparisons To recognise that people can be describes by attributes To explain that we can present information using a computer 	 To say how music can make us feel To identify that there are patterns in music To describe how music can be used indifferent ways To show how music is made from a series of notes To create music for a purpose To review and refine our computer work 	 To explain that a sequence of commands has a start To explain that a sequence of commands has an outcome To create a program using a given design To change a given design To create a program using my own design To decide how my project can be improved
<u>(S1 National</u>	Curriculum Requirements	L	-
Computer scien Co2/1.1 und	.ce units: erstand what algorithms are; how they are imp	lemented as programs on digital devices, and	that programs execute by following precise
-	bus instructions	nemented as programs on aigital devices; and	i that programs execute by Johowing precise
Co2/1.2 crea	te and debug simple programs		
	logical reasoning to predict the behaviour of s	imple programs	
-	hnology units:		
	technology purposefully to create, organise, sto		
	gnise common uses of information technology technology safely and respectfully, keeping per		to for help and support when they have
	material on the internet or other online techno		jo jor neip and support when they have

		Year 3/4 Year A	
	<u>Autumn term</u>	Spring term	<u>Summer Term</u>
1 st half term	Connecting computers	Sequence in music	Desktop publishing
Sequence of lessons	 How does a digital device work? What parts make up a digital device? How do digital devices help us? How am I connected? How are computers connected? What does our school network look like? 	 Introduction to Scratch Programming sprites Sequences Ordering commands Looking good Making an instrument 	 Words and pictures Can you edit it? Great template Can you add content? Lay it out Why desktop publishing?
Vocabulary	Digital device, input, output, process, program, connection, network, switch, server, Wireless Access Point (WAP),	Scratch, programming blocks, commands, code, sprite, costume, stage, backdrop, motion, turn, point in direction, go to , glide, event, sequence, task, design, run the code, order, note, chord, algorithm, bug, debug	Text, images, advantages, disadvantages, communicate, font, style, template, landscape, portrait, orientation, placeholder, desktop publishing, copy, paste, layout, purpose, benefits
Learning objectives and Skills	 To explain how digital devices function To identify input and output devices To recognise how digital devices can change the way we work To explain how a computer network can be used to share information To explore how digital devices can be connected To recognise the physical components of a network 	 To explore a new programming environment To identify that each sprite is controlled by the commands I choose To explain that a program has a start To recognise that a sequence of commands can have an order To change the appearance of my project To create a project from a task description 	 To recognise how text and images convey information To recognise that text and layout can be edited To choose appropriate page settings To add content to a desktop publishing publication To consider how different layouts can suit different purposes To consider the benefits of desktop publishing
2 nd half term	Stop frame animation	Branching databases	Events and actions
Sequence of lessons	 Can a picture move? Frame by Frame What's the story? Picture perfect Evaluate and make it great! Lights, camera, action 	 Yes or no questions Making groups Creating a branching database Structuring a branching database Using a branching database Two ways of presenting information 	 Moving a sprite Maze movement Drawing lines Adding features Debugging movement Making a project
Vocabulary	Animation, flipbook, stop frame animation, frame, sequence, image, photograph, setting, character, events, onion skinning,	Branching database, attribute, value, questions, table, objects, equal, even, separate, compare, order, organise,	Motion, event, sprite, algorithm, logic, move, resize, extension block, pen up, set

Learning objectives and Skills	 consistency delete, evaluation, media, import, transition To explain that animation is a sequence of drawings of photographs To relate animated movement with a. sequence of images To plan an animation To identify the need to work consistently and carefully To review and improve an animation To evaluation the impact of adding other media to an animation 	 structure, J2 data, selecting, pictogram information, decision tree To create questions with yes/no answers To identify the object attributes needed to collect relevant data To create a branching database To identify objects using a branching data base To explain why it is helpful for a database to be well structured To compare the information shown in a pictogram with a branching database 	 up, design, event, actions, debugging, errors, setup, code, test, To explain how a sprite moves in an existing project To create a program to move a sprite in four directions To adapt a program to a new context To develop my program by adding features To identify and fix bugs in a program To design and create a maze-based challenge
KS2 National C Computer science	Curriculum Requirements		·
•	n, write and debug programs that accomplish sp em into smaller parts	pecific goals, including controlling or simulating	physical systems; solve problems by
Co2/1.2 use s Co2/1.3 use la Information tech	equence, selection, and repetition in programs; v ogical reasoning to explain how some simple alg	orithms work and to detect and correct errors i	n algorithms and programs
they offer for co Co2/1.5 use s Co2/1.6 select programs, syster	mmunication and collaboration earch technologies effectively, appreciate how re t, use and combine a variety of software (includi ms and content that accomplish given goals, incl echnology safely, respectfully and responsibly; r	esults are selected and ranked, and be discernin ing internet services) on a range of digital devic luding collecting, analysing, evaluating and pres	g in evaluating digital content es to design and create a range of senting data and information.

	Year 3/4 Year B			
	Autumn term	<u>Spring term</u>	Summer Term	
1 st half term	The internet	Repetition in shapes	Photo editing	
Sequence of lessons	 Connecting devices What is the internet made of? Sharing information What is a website? Who owns the web? Can I believe what I read? 	 Programming a screen turtle Programming letters Patterns and repeats Using loops to create shapes Breaking things down Creating a program 	 Changing digital images Changing the composition of images Changing images for different uses Retouching images Fake images Making and evaluating a publication 	
Vocabulary	Internet, network, router, network security, network switch, server wireless access pint (WAP), website, web page, web address, routing, route tracing browser, world wide web, links, files, content, information sharing, accurate honest, adverts.	Program, turtle, Pattern, repeat, repetition, count-controlled loop, algorithm, value, commands, code, snippet, design, debug, Logo commands, trace, decompose, procedure,	Image, edit, arrange, select, digital, crop, undo, save, image, search, save, copyright, composition, pixels, rotate, flip, Image, adjustments, effects, colours, hue/saturation, sepia, version, illustrator, vignette, retouch, clone, recolour, magic wand, select, adjust, sharpen, brighten, , fake, real, composite, cut, copy, paste, alter, background, foreground, publication, elements, original, font style, shapes, border, layer	
Learning objectives and Skills	 To describe how networks physically connect to other networks To recognise how networked devices make up the internet To outline how websites can be shared via the World Wide Web To describe how content can be added and accessed on the World Wide Web To recognise how the content of the WWW is created by people To evaluate the consequences of unreliable content 	 To identify that accuracy in programming is important To create a program in a text-based language To explain what 'repeat' means To modify a count-controlled loop to produce a given outcome To decompose a program into parts To create a program that uses count-controlled loops to produce a given outcome 	 To explain that digital images can be changed To change the composition of an image To describe how images can be changed for different uses To make good choices when selecting different tools To recognise that not all images are real To evaluate how changes can improve an image 	
2 nd half term	Audio editing	Data logging	Repetition in games	
Sequence of lessons	 Digital recording Recording sounds Creating a podcast Editing digital recordings Combining audio Evaluating podcasts 	 Answering questions Data collection Logging Analysing data Data for answers Answering my question 	 Using loops to create shapes Different loops Animate your name Modifying a game Designing a game 	

Vocabularyspeaker, headphones, input, output, sound, playback, start, pause, stop, podcast, edit, open, selection, save, file, mixing, tie shift, export, MP3, evaluate, feedback.code, loop, repeat, value, repeat, forever, ir logged, collection, analyse, review, conclusion.Learning objectives and Skills• To identify that sound can be digitally recorded• To explain that adita logger collects 'data points' from sensors over time• develop the use of count-controlled loop different programming environment • To explain that aduit can be combined and played together • To evaluate editing choices made• To explain that adua logger collects' data points' from sensors over time• develop the use of count-controlled loop different programming environment • To explain that aduation logger collects' data points' from sensors over time• develop the use of count-controlled loop different programming environment • To explain that aduito can be changed through editing• To show that different types of audio can be combined and played together • To evaluate editing choices made• To use collected over a long duration to find information • To use collected data to answer questions• To design a project that includes repet • To design a project that includes repet • To use collected data to answer questionsKS2 National Curriculum Requirements Coopluter science units: Co2/1.1Method genger design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by				6. Creating our games
 Learning objectives and Skills To identify that sound can be digitally recorded To use a digital device to record sound To explain that a digital recording is stored as a file To explain that audio can be changed through editing To show that different types of audio can be combined and played together To evaluate editing choices made To evaluate editing choices made To use collected data to answer questions To create a project that includes repet 	Vocabulary	speaker, headphones, input, output, sound, playback, start, pause, stop, podcast, edit, open, selection, save, file, mixing, tie shift,	device, sensor, logging, data point, interval, analyse, data set, import, export, logged, collection, analyse, review,	Scratch, programming, algorithm, sprite, blocks, code, loop, repeat, value, repeat, forever, infinite loop, count controlled loop, costume, repetition, animate, event block, duplicate, design, modify, refine, evaluate,
Computer science units: Co2/1.1 design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by	objectives and	 recorded To use a digital device to record sound To explain that a digital recording is stored as a file To explain that audio can be changed through editing To show that different types of audio can be combined and played together 	 time can be used to answer questions To use a digital device to collect data automatically To explain that a data logger collects 'data points' from sensors over time To use data collected over a long duration to find information To identify the data needed to answer questions To use collected data to answer 	 more loops which run at the same time To modify an infinite loop in a given program
Co2/1.1 design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by				
			specific agais including controlling or sim	nulating physical systems: solve problems by
decomposing them into smaller parts				
Co2/1.2 use sequence, selection, and repetition in programs; work with variables and various forms of input and output			; work with variables and various forms o	f input and output
Co2/1.3 use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs				

Information technology units:

Co2/1.4 understand computer networks including the internet; how they can provide multiple services, such as the world-wide web; and the opportunities they offer for communication and collaboration

Co2/1.5 use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content

Co2/1.6 select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of

programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information.

Co2/1.7 use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact

	Year 5/6 Year A			
	<u>Autumn term</u>	Spring term	<u>Summer Term</u>	
1st half term	Sharing information – systems and searching	Selection in physical computing	Vector drawing	
Sequence of lessons	 Systems Computer systems and us Searching the web Selecting search results How search results are ranked How are searches influenced 	 Connecting Crumbles Combing output components Controlling with conditions Starting with selection Drawing designs Writing and testing algorithms 	 The drawing tools Creating images Making effective drawings Layers and objects Manipulating objects Creating a vector drawing 	
Vocabulary	system, connections, digital, input, process, output, protocol, address, packet, chat, explore, slide deck, reuse, remix, collaboration	Microcontroller, Crumble controller, components, LED, Sparkle, crocodile clips, connect, battery box, program, repetition, infinite loop, output devices, motor, count- controlled loop, condition, true, false, input, selection, action Task, design, algorithm, debug, evaluate	Vector, drawing tools, shapes, object, icons, toolbar, move, resize, colour, rotate, duplicate/copy, organise, zoom, select, rotate, alignment grid, resize, handles, consistency, modify, layers, front, back, order, Copy, paste, group, ungroup, duplicate, vector drawing, reuse, Improvement, evaluate, alternatives,	
Learning objectives and Skills	 To explain that computers can be connected together to form systems To recognise the role of computer systems in our lives To recognise how information is transferred over the internet To explain how sharing information online lets people in different places work together To contribute to a shared project online To evaluate different ways of working together online 	 To control a simple circuit connected to a computer To write a program that includes count-controlled loops To explain that a loop can stop when a condition is met, eg number of times To conclude that a loop can be used to repeatedly check whether a condition has been met To design a physical project that includes selection To create a controllable system that includes selection 	 To identify that drawing tools can be used to produce different outcomes To create a vector drawing by combining shapes To use tools to achieve a desired effect To recognise that vector drawings consist of layers To group objects to make them easier to work with To evaluate my vector drawing 	
2 nd half term	Video editing	Flat-file databases	Selection in quizzes	

Sequence of lessons	 What is a video? Filming techniques Using a storyboard Planning a video Importing and editing video Video evaluation 	 Creating a paper-based database Computer databases Using a database Using search tools Comparing data visually Databases in real life 	 Exploring conditions Selecting outcomes Asking questions Planning a quiz Testing a quiz Evaluating a quiz
Vocabulary	Video, audio, AV (audio-visual), recording, storyboard, dialogue, capture, tape, digital, save, videographer, lighting, setting, Youtuber, content, soundtrack, retake/reshoot, special effects, title screen, end credits, export, constructive feedback, Video techniques: zoom, pan, tilt, angle	Database, data, information, record, field, sort, order, group, search, value, criteria, graph, chart, axis, compare, filter, presentation	Selection, condition, true, false, outcomes, count controlled loop, conditional statement - the linking together of a condition and outcomes- algorithm, program, debug, questions, answer, implement, design, test, run, setup, share, evaluate, constructive
Learning objectives and Skills	 To identify digital devices that can record video To capture video using a digital device To recognise the features of an effective video To identify that video can be improved through reshooting and editing To consider the impact of the choices made when making and sharing a video 	 To use a form to record information To compare paper and computer-based databases To outline how grouping and then sorting data allows us to answer questions To explain that tools can be used to select specific data To explain that computer programs can be used to compare data visually To apply my knowledge of a database to ask and answer real-world questions 	 To explain how selection is used in computer programs To relate that a conditional statement connects a condition to an outcome To explain how selection directs the flow of a program To design a program which uses selection To create a program which uses selection To evaluate my program
Computer scient Co2/1.1 designed decomposing th Co2/1.2 use s Co2/1.3 use l	gn, write and debug programs that accomplis em into smaller parts sequence, selection, and repetition in program	h specific goals, including controlling or simulati us; work with variables and various forms of inpu algorithms work and to detect and correct error	ut and output

Information technology units:

Co2/1.4 understand computer networks including the internet; how they can provide multiple services, such as the world-wide web; and the opportunities they offer for communication and collaboration

Co2/1.5 use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content

Co2/1.6 select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information. Co2/1.7 use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact

	Year 5/6 Year B			
	<u>Autumn term</u>	<u>Spring term</u>	Summer Term	
1 st half term	Communication	Variable in games	3D modelling	
Sequence of lessons	 Internet addresses Data packets Working together Shared working How we communicate Communicating responsibly 	 Introducing variables Variables in programming Improving a game Designing a game Design to code Improving and sharing 	 Introduction to 3D modelling Modifying 3D objects Make your own name badge Making a desk tidy Planning a 3D model Make your own 3D model 	
Vocabulary	Index, crawler, bot, search engine, Ranking, search engine optimisation, links, web crawlers, content creator communication, internet, public, private, one-way, two-way, one-to-one, one-to-many, SMS, email, WhatsApp, blog, Website, web page, browser, media, Hypertext markup Language (HTML) logo, layout, header, media, purpose	Variable, name, value, set, change, design, event, Design, algorithm, code, task, algorithm, artwork, program, project, code, test, debug, Improve, evaluate, share	2D, 3D, 3D object, 3D space, view, resize, colour, lift, rotate, position, select, duplicate, dimensions, placeholder, hole, group, ungroup, design , modify, evaluate, improve	
Learning objectives and Skills	 To describe how search engines select results To explain how search results are ranked To recognise why the order of results is important, and to whom To recognise how we communicate using technology To evaluate different methods of online communication 	 To define a 'variable' as something that is changeable To explain why a variable is used in a program To choose how to improve a game by using variables To design a project that builds on a given example To use my design to create a project To evaluate my project 	 To use a computer to create and manipulate three-dimensional (3D) digital objects To compare working digitally with 2D and 3D graphics To construct a digital 3D model of a physical object To identify that physical objects can be broken down into a collection of 3D shapes To design a digital model by combining 3D objects 	

			 To develop and improve a digital 3D model
2 nd half term	Web page creation	Introduction to spreadsheets	Sensing Movement
Sequence of lessons	 What makes a good website? How would you layout your web page? Copyright or copyWRONG? How does it look? Follow the breadcrumbs Think before you link! 	 Collecting data Formatting a spreadsheet What's the formula? Calculate and duplicate Event planning Presenting data 	 The micro:bit Go with the flow Sensing inputs Finding your way Designing a step counter Making a step counter
Vocabulary	Website, web page, browser, media, Hypertext Markup Language (HTML) logo, layout, header, media, purpose, Copyright, fair use, home page, preview, evaluate, device, Google Sites, breadcrumb trail, navigation, hyperlink, subpage, Hyperlink, evaluate, implication, external link, embed	Spreadsheet, data, data item, data set, data heading, cells, columns and rows, object, spreadsheet application, format, common attribute, formula, calculation, input, output, cell reference, calculate, operation, formula, range, duplicate, sigma, propose, question, organised graph, chart, evaluate, results, comparison, questions, software, tools	Micro:bit, MakeCode, input, process, output, flashing, USB, Selection, condition, if then else, variable, random, variable, sensing, accelerometer, Compass, direction, navigation, Micro:bit, design, task, algorithm, variable, step counter, Plan, create, code, test, debug
Learning objectives and Skills	 To review an existing website and consider its structure To plan the features of a web page To consider the ownership and use of images (copyright) To recognise the need to preview pages To outline the need for a navigation path To recognise the implications of linking to content owned by other people 	 To identify questions which can be answered using data To explain that objects can be described using data To explain that formula can be used to produce calculated data To apply formulas to data, including duplicating To create a spreadsheet to plan an event To choose suitable ways to present data 	 To create a program to run on a controllable device To explain that selection can control the flow of a program To update a variable with a user input To use an conditional statement to compare a variable to a value To design a project that uses inputs and outputs on a controllable device To develop a program to use inputs and outputs on a controllable device
	Curriculum Requirements		
decomposing th Co2/1.2 use	gn, write and debug programs that accomplish s iem into smaller parts sequence, selection, and repetition in programs; logical reasoning to explain how some simple alg	work with variables and various forms of inp	ut and output

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