



Filey Junior School

Widening Horizons and Reaching Our Potential. Respecting the World and Each Other.
A Happy, Healthy and Positive Learning Community

Curriculum Pillars ICT

Digital Literacy	Information Technology	Computer Science
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Themes ICT


E-Safety Contact	Word Processing	Programmable toys
E-Safety Content	Slides	Logo
E-Safety Conduct	Spreadsheets	Block based programming
E-Safety Commerce	Website design	Text-based programming (Turtle Academy)
	Image editing and manipulation	

**Pillar Progression
ICT**

Year 3	Year 4	Year 5	Year 6
<p>Digital Literacy</p> <ul style="list-style-type: none"> ● (E-Safety) ● I can create a secure username and passwords ● I can explain how to keep my username/password private ● I can explain online stranger danger ● I can list ways to stay safe online ● I can report inappropriate online behaviour ● I can check safe search is turned on in Google ● I can accurately type into the search bar ● I can identify highly ranked and reliable search results. ● I can identify safe and secure websites ● I recall Conduct from the 4C's. 	<p>Digital Literacy</p> <ul style="list-style-type: none"> ● (E-Safety) ● I can explain online stranger danger ● I can describe which information I should keep private ● I can report inappropriate online behaviour ● I can define phishing ● I can identify messages from strangers ● I can use steps to protect myself from unwanted messages ● I can list unacceptable online behaviour ● I can recognise cyberbullying. ● I can recall Conduct and Commerce from the 4C's. 	<p>Digital Literacy</p> <ul style="list-style-type: none"> ● (E-Safety) ● I can list the age restrictions for social media apps ● I can recognise important symbols on social media ● I can edit settings to keep my profiles and information private ● I can explain the effects of cyberbullying on victims ● I can explain the difference between cyber and face to face bullying ● I can report inappropriate online behaviour correctly ● I can identify and avoid spam/scam content/contact ● I can monitor and manage my mobile phone usage ● I understand the negative and positive effects of mobile phone usage ● I can explain the positive/negative effects of AI chatbots. ● I can recall Conduct, Commerce, Contact from the 4C's 	<p>Digital Literacy</p> <ul style="list-style-type: none"> ● (E-Safety) ● I can recall and explain the purpose of age restrictions. ● I can list inappropriate content for ages 10-11. ● I can identify ways social media can affect mental health and body image. ● I can describe the steps to protect my mental health online ● I can identify friends/family who need support ● I can describe how online body images can be filtered ● I can report inappropriate online behaviour ● I can explain the risks of deepfakes and sextortion. ● I can recognise grooming and its risks. ● I can recognise radicalisation and the risks of extremism. ● I understand the 4C's of online risk conduct, contact, content, commerce.
<p>Information Technology</p> <ul style="list-style-type: none"> ● Google Docs ● I can use a mouse to copy and paste ● I can use a shortcut to copy and paste ● I can screenshot 	<p>Information Technology</p> <ul style="list-style-type: none"> ● Google Slides ● Insert and edit text boxes ● Edit slide backgrounds ● Add fill colour and gradients ● Apply and edit borders 	<p>Information Technology</p> <ul style="list-style-type: none"> ● Google Sheets ● I can identify cells using letter and number reference ● Change cell fill colour ● Edit cell borders ● Edit cell alignment 	<p>Information Technology</p> <ul style="list-style-type: none"> ● Google Sites ● design a website with appropriate language and style for my target audience ● apply colours, layouts and themes to give a consistent

<ul style="list-style-type: none"> ● Insert images ● Crop image ● Resize images ● Add text boxes ● Fill colour of shapes/boxes ● Zoom in and out ● Change Font ● Bookmark website ● Align text ● Use upper and lower case typing ● Open blank documents ● Share documents <ul style="list-style-type: none"> ● Image Editing ● accurately use the pencil tool ● make multiple shapes with the shape tool ● use the blend tool ● use the paint bucket tool ● use the gradient fill tool to create a background ● upload images from Google ● rotate images ● resize images ● flip images ● add layers ● select, show and hide layers ● erase parts of layers ● combine skills to produce my own drawing 	<ul style="list-style-type: none"> ● Apply slide layouts ● Duplicate slides ● Add new slides ● Insert image and gifs ● Insert hyperlinks ● Insert animations ● Embed YouTube videos <ul style="list-style-type: none"> ● Image Editing ● apply templates ● apply graphic ● apply frames ● add text to images ● change the transparency of images ● insert stickers ● upload drawings to become animations ● add animation to my image ● create my own avatar ● combine skills to produce a digital poster 	<ul style="list-style-type: none"> ● Edit row/column height/ width ● Insert rows and columns ● Use formula to add, subtract, multiply and divide cells ● Produce charts to represent data ● Produce and analyse spreadsheets ● Organise cells alphabetically and numerically <ul style="list-style-type: none"> ● Image Editing ● make image adjustments ● Duplicate layers ● Add new layers ● Make layers visible and invisible ● Lasso parts of objects ● Use stock search ● Remove unwanted background ● Blend images ● Apply filters ● Produce a collage 	<p>website style</p> <ul style="list-style-type: none"> ● Insert image header ● Insert image carousel ● Insert collapsible text ● Insert table of contents ● Insert button links ● Embed YouTube videos ● Insert a map ● Insert calendar ● Insert docs/forms/slides ● Insert divide <ul style="list-style-type: none"> ● Image Editing ● Select and erase layers ● Use eraser to remove unwanted background ● Match brightness and contrast between layers ● Flip layers vertically ● Change layer order ● Change image opacity ● Free distort images
<p>Computer Science</p> <ul style="list-style-type: none"> ● Coding ● I can understand that computers need very clear instructions ● write algorithms in a logical order ● test run after each algorithm/ code to check their success. ● debug algorithms and code ● add sprites and backdrops ● add sound to sprites ● animate sprites with motion blocks (movement) ● code using sensing blocks ● code sprites to move to random 	<p>Computer Science</p> <ul style="list-style-type: none"> ● Coding ● Sequence code ● Code specific start positions for sprites ● Explain user input/output ● Use keyboard input for directional motion output ● Use repeat loops ● Debug to fix problems ● Use code to achieve a specific goal ● I can explain - and + X and Y 	<p>Computer Science</p> <ul style="list-style-type: none"> ● Coding ● decompose existing games ● generalise knowledge from existing games to create new games ● code games in a logical order ● design a game for a specific target audience ● evaluate the enjoyability of a game ● Broadcast messages ● Switch between Multiple backdrops to make new levels 	<p>Computer Science</p> <ul style="list-style-type: none"> ● Coding ● design a game with appropriate content and playability for my target audience ● move my sprite with button input ● code my sprite to stay within the screen parameters ● code sprite projectiles ● code sprite velocity ● create enemy sprites ● code with sprite overlap blocks to make sprites interact ● code with destroy blocks

<ul style="list-style-type: none"> positions code sprites to bounce off walls use directional input Sequence code for efficiency Change sprite costumes <ul style="list-style-type: none"> Programmable Toys use keypad forward commands use keypad left and right commands with the correct number explain the 1 - 60 commands to turn the robot Use the pause command Use the fire command use a pre-written algorithm to achieve a specific outcome debug algorithms to fix errors predict the outcome of inputs plan and command in a logical order decompose big tasks into smaller parts Use repeat loops safely operate and carry robotic equipment 	<ul style="list-style-type: none"> Use conditional commands blocks Use operator blocks Use variable blocks <ul style="list-style-type: none"> Logo (Turtle Academy) Define LOGO Use full commands Change full commands into shortcut commands accurately input the commands Control the pen width Control pen up and down Control pen colour Run commands check the outcome Use commands to achieve a specific outcome Sequence commands Debug to fix errors Use repeat loops Calculate interior angles to produce polygons 	<ul style="list-style-type: none"> use variables to increase and decrease scores Use visual screen effects Design sprites using tilemaps <ul style="list-style-type: none"> Micro:bit describe the function of a micro bit Code with repeat loops Code with LED string blocks Connect and download from chromebook to microbit Code with A and B buttons on the microbit Produce patterns inside LEDE blocks Code a radio group Send and receive strings Explain how the accelerometer works Code with maths blocks Create tools 	<ul style="list-style-type: none"> code with info blocks to create lives/scores improve game playability with visual effects and sound block Download my game to a gameboy device <ul style="list-style-type: none"> Micro:bit Code shapes with LED blocks Code with variable blocks Code with logic blocks Label the parts of a micro:bit Code with input blocks Code tools and games Connect a sound lead Connect a ground lead Connect a headphone sound contact Code with pin blocks
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	<h2 style="text-align: center;">Filey Junior School - Long Term Plan for Computing</h2>						
	DIGITAL LITERACY	INFORMATION TECHNOLOGY	COMPUTER SCIENCE			INFORMATION TECHNOLOGY	
	Autumn 1 - E Safety	Autumn 2 - IT Skills	Spring 1 - Coding	Spring 2 - Coding	Summer 1 - Programming	Summer2 - Image editing	
Year 3	E-Safety	Chromebooks device skills & Docs	Algorithms and Scratch		Programmable toys	Sumo Paint Art	
Year 4	E-Safety	Presentation Skills - Slides	Scratch		Turtle Academy (LOGO)	Paint Tool Online	
Year 5	E-Safety	Spreadsheets - Sheets	Scratch and MakeCode Arcade		Microbits	Photo Editing - Pixlr	
Year 6	E-Safety	Website Design - Sites	Make Code Arcade		Microbits	Photo Editing - Pixlr	

