



# St Barnabas

Church of England Primary Academy

A member of **CTDARI**

**'That they shall have life,  
life in all its fullness!'** John

10:10

**'Achieving great things through  
learning and growing together  
in a love-filled Christian family'**

## Computing Curriculum Overview 2023-2024

Year	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 1	<p><b>iMedia-iJam Lite 1 - iLoop</b></p> <p>Pupils will work initially as a class creating a class song before moving into pairs or small groups to create a short composition using a variety of instruments and sounds available within the app.</p>	<p><b>iProgram - Lite L1 - iCode</b></p> <p>Sessions will start by tasking students to find solutions to everyday tasks before applying this logical thinking to solve a series of problems within the app Kodable. This will culminate in learning how to use the coding language Blockly, using the app 'Daisy the Dinosaur'.</p>	<p><b>iMedia - iAnimate Lite L1- iMovie</b></p> <p>During iMove, pupils will learn about 'Stop Motion' animation. They will gain a number of animating skills to create their own stop motion animation on an iPad. Pupils will have to create a plot and overcome the challenges.</p>	<p><b>iMedia - iCreate - Lite L1- iPhotograph</b></p> <p>Pupils will learn about the basic principles of photography such as focal point, foreground and background, and the importance of light. Pupils will also learn about photo editing using apps such as Adobe Photoshop Express.</p>	<p><b>iMedia - iCommunicate - Lite L1 - iSecure</b></p> <p>Pupils will be introduced to different real-life scenarios and develop different strategies to stay clear of, or to deal with potential situations that could arise when online.</p>	<p><b>iMedia - iTech - Lite L1- iInvent</b></p> <p>iInvent focuses on how technology has progressed through the 19th and 21st centuries. This will cover how to use technology safely and responsibly.</p>
Year 2	<p><b>iJam - Lite L2 - iGenre</b></p> <p>Pupils will explore popular music from the past 60 years and be tasked with creating</p>	<p><b>iProgram Lite L2 - iFunction</b></p> <p>Pupils will need to apply additional logical thinking to</p>	<p><b>iMedia - iAnimate Lite L2 - i2D</b></p> <p>This course focuses on 2D and hand drawn</p>	<p><b>iMedia - iCreate - Lite L2 - iMagazine</b></p> <p>Pupils will create a school magazine using stock</p>	<p><b>iMedia - iCommunicate - Lite L2 - iConnect</b></p>	<p><b>iMedia - iTech - Lite L2 - iFilm</b></p> <p>Pupils will focus specifically on the</p>

	<p>their own versions using the app GarageBand. Pupils will develop their aural skills learning to recognise different instruments and sounds associated with different genres.</p>	<p>create algorithms within their new more advanced app Hopscotch. More advanced computing elements will be covered, and programs designed by the pupils will be able to showcase each group's understanding.</p>	<p>animation. Pupils will learn how to bring two dimensional drawings to life through use of the app 'Do Ink Animation'. They will animate a given story line on 'Scratch Jr', mixing coding into their creativity.</p>	<p>photos and original text. Pupils will be required to utilise the skills covered in Life Levels 1's iPhotograph in order to create a marketable magazine. Pupils will also learn how to format text, textboxes, photos and other content within the app Strip Designer.</p>	<p>The class will explore and discuss the reasons why people may wish to connect with others both around them and far away. Pupils will create multimedia communications to send to a recipient.</p>	<p>technology that surrounds the film industry and is used to create both animated and live action films. Pupils will use the app Toontastic to digitally plan and create an animated film before filming a live action trailer using the app iMovie.</p>
Year 3	<p><b>iMedia - iJam L1 - iSong</b></p> <p>Pupils will create a short composition using a variety of instruments and sounds available in the app. Tempo will be addressed, both in relation to musical genre and how it affects the feel and impact of a song.</p>	<p><b>iMedia - iProgram L1 - iLogic</b></p> <p>Pupils will learn how to use the coding language 'Blockly' to introduce key programming elements such as steps, loops, basic logic and functions such as 'if' statements.</p>	<p><b>iMedia - iOffice L1 - iSafety</b></p> <p>Pupils will combine learning how to stay safe while on a digital device. Our E-Safety module covers Cyber Bullying, Online Gaming, Trust, Digital Reputation, Location Permissions, Online Contact and Social Media.</p>	<p><b>iMedia - iCreate L1 - iStop Motion</b></p> <p>Pupils will learn about stop motion animation and create a short stop motion film. Following this, pupils will learn about post-production effects such as 'Chroma key' and 'Foley'.</p>	<p><b>iMedia - iCommunicate L1</b></p> <p>This module focuses on podcasting, blogging, vlogging and broadcast channels. Pupils will look at the origins of these four areas before learning how to create their own.</p>	<p><b>iMedia - iTech iCSI - Cyber Security - iControl</b></p> <p>Pupils will build upon their coding knowledge gained during Level 1 iProgram and learn how to control both simulated and external systems. Pupils will use computational thinking to plan, create and write a program to run an external device.</p>
Year 4	<p><b>iMedia - iJam L2 - iDance</b></p> <p>Pupils will create a short composition in their chosen genre. Elements such as dynamics and pitch will be explored and applied to the</p>	<p><b>iMedia - iProgram L2</b></p> <p>Advanced iFunction looks at creating programs to solve real-world problems. Building upon their knowledge of 'Blockly' from Level 1 pupils will apply logical reasoning and computational thinking to create games, control</p>	<p><b>iMedia - iOffice L2 - iSocial</b></p> <p>Pupils will then be tasked with designing and creating their own social</p>	<p><b>iMedia - iCreate L2 - iEdit</b></p> <p>Pupils will learn basic and advanced editing techniques and video effects to produce a music video. Pupils will edit, cut and splice footage</p>	<p><b>iMedia - iCommunicate L2 - iPublish</b></p> <p>Pupils will learn the fundamentals of photography and editing before moving on to the</p>	<p><b>iMedia - iTech iCSI - iBlast Off</b></p> <p>Using research, design and simulation apps, the pupils must decide what their mission will be and see if it would be successful. Will they</p>

	compositions. The concept of the 'Audio Spectrum' will be introduced.	solutions and solve other problems.	media platform to fill the gap in the market.	supplied to them in order to create their final video.	uses for their photography. They will design and produce a magazine around a theme chosen by the pupils.	perform scientific experiments on the planet or bring samples back home to test?
Year 5	<b>iMedia - iJam L3 - iHip-Hop</b>  Pupils will study the basic elements of the genre and develop their sampling and audio editing skills to create their own original Hip-Hop track. As well as using 'GarageBand'.	<b>iMedia - iProgram L3 - iDebug</b>  Pupils will use their computational thinking to decompose the problem and create a coding solution. Pupils will then be able to apply this process to create programs of their own design.	<b>iMedia - iOffice L3 - iCompany</b>  iCompany is an Excel based course. Pupils will begin with a recap of basic Excel knowledge gained in Level 1 before moving on to more advanced functions within the app.	<b>iMedia - iCreate L3 - Advanced i2D</b>  This module looks into early 2D animation and its development over time. Pupils will start with basic flip books before developing different skills to produce a 2D piece of vector art.	<b>iMedia - iCommunicate L3 - iAdvertise</b>  Pupils will learn how to create radio adverts and jingles to suit different products and themes, create a TV advert for a new product and finally a digital print advert for their product.	<b>iMedia - iTech iCSI - Cyber Security</b>  Pupils will be tasked with investigating and solving a crime. Before going to trial they will learn about evidence collecting and analysing, code breaking, observation and communication skills as well as presenting evidence.
Year 6	<b>iMedia - iJam L4 - iRemix</b>  Pupils will explore and use several different techniques used by industry professionals to remix a song. Students will add vocal effects to stems, creating live loops and layering.	<b>iMedia - iProgram L4 - iDevelop</b>  Pupils will now progress to learn a more advanced language called 'Swift'. Through Swift pupils will learn how to manipulate written text code.	<b>iMedia - iOffice L4 - iCV</b>  Pupils must use all the skills they have learnt during Levels 1, 2 and 3 on Excel, Word and Keynote, to design and present their hero. Pupils will learn how to create and correctly format a CV.	<b>iMedia - iCreate L4 - iDigital</b>  Pupils will learn how to create different multimedia digital content. They will look at filming, coding storyboards, complex editing, GIFS, Cinemograph, AR and 3D drawing.	<b>iMedia - iCommunicate L4 - iGraphics</b>  Pupils will design and build their own website for Junior Jam. Students will be given a design brief to aid the design process. The website will include elements of HTML as well as using a WYSIWYG	<b>iMedia - iTech iCSI - Cyber Security</b>  Pupils will be tasked with investigating and solving a crime. Before going to trial they will learn about evidence collecting and analysing, code breaking, observation and communication skills as well as presenting evidence.

					developing app to help visualise their design.	
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