

Digital Skills After School Clubs – Fun and Educational!

How much does your child know about the digital world? They may have been born with technology in their lives but do they really understand it? Are they prepared for what the future holds? ETC can help answer these questions. We have developed Digital Skills After School Clubs to bridge the gap between what the national curriculum teaches and what it doesn't.

We are delighted to be collaborating with your school who are helping us reach our aim to be able to provide digital skills teaching to all primary school children in the UK, in a fun and engaging way.

From September 2019 we are offering two After School Club (ASC) Streams to provide children with the opportunity to learn a variety of digital and creative skills over the course of the academic year.

ASC Streams:	Coding Technology	Creative Technology
Term 1.	Coding	Music Tech
Term 2.	Website Development	Graphic Design & Digital Photography
Term 3.	Robotics	Animation & Videography

Please see pages 2-5 for more details about each subject.

These different streams are designed to run for one full academic year with content to keep students engaged all year. Each subject is a stand-alone course but children will benefit most by choosing one stream and work through each subject for the year. All children attending a club in the first term will get first refusal to the next club in the same stream.

Price: £60 per subject (10 week course) Discounts available for booking multiple subjects in advance.

Dates: Please contact your school's office for days and start/end dates.

Booking: Please email us at clubs@etcgroup.uk, or you can book online at www.etcgroup.uk/bookings.

About ETC. After School Clubs

ETC was founded by a social entrepreneur who envisioned a technology revolution. As an IT professional he noticed a shortage of British tech talent and decided to pioneer Community Coding Club to help alleviate this problem for future generations. ETC now provide a variety of Digital Skills subjects so that children can have the chance to learn skills that will be essential for their future.

Our Aim

We want to give the next generation more opportunities and we believe technology is the vehicle that will enable them to make their dreams tangible. We want to educate them on how to use technology safely and productively and also empower them with the necessary skills to be creators and not just users of technology. For more information about our mission visit www.etcgroup.uk

"Everybody has to be able to participate in a future that they want to live for. That's what technology can do"
(Dean Kamen – Inventor of Segway)

**If you have any questions please email us at hello@etcgroup.uk
or call 01923 375 210.**



CODING TECHNOLOGY STREAM

IMPROVE LOGICAL THINKING AND PROBLEM-SOLVING SKILLS

CODING: PURE PROGRAMMING:

Your child will be learning the science of programming...so what does that mean? In a world that is becoming increasingly more driven by technology, which is invariably powered by code, it is essential that your child knows how to code; not just for the sake of being able to create, but also to ensure they possess the requisite skills and know how to thrive in the digital age that is coming.

Topics Covered:

- The application of programming in modern day society
- Programming principle and best programming practices
- Debugging (Finding and fixing errors in code)
- How to organise programming projects
- Understanding Fuse Basic development environment
- Learn Fuze Basic (Programming language)
- How to read and write code in a coding language (Fuze)

Course Outcome:

- Create basic program developed in Fuze Basic
- Learn to create games
- Learn to create quizzes
- Be able to explain program structure

WEBSITE DEVELOPMENT: THE FUTURE IS ONLINE. THE FUTURE IS HERE:

The internet is a platform that people use in their everyday life for communication, learning, shopping, entertainment, business, research and economic purposes. Children who understand the Internet and learn the skills to be able to develop websites will have an advantage.

Topics covered:

- The role of the Internet in modern society
- Safety on the web
- Fundamentals of web design
- Best web design principles
- Web structure and accessibility
- Basic tags
- Hyperlinks
- Image placement
- CSS (Cascading Style Sheets)
- HTML
- External Style Sheets
- How to upload your site to Dreamweaver

Course Outcome:

- Develop their own functioning website
- Understand what HTML and CSS stand for
- Be able to orally explain what at least 5 tags mean
- Know how to decorate website and what style is
- Know how to connect the website to another links/website
- Manipulate the look and feel of own designed webpages

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ROBOTICS: FUTURE TECHNOLOGIES:

Robotics is a branch of engineering that involves the conception, manufacture, design and implementation of robots. Robots are used in so many different industries such as manufacturing (car manufacture), hospitals (pharmacy for refilling) and even in households (robotic cleaners).

Topics covered:

- Learning the application of robotics in modern day society
- Learning the design process of robots
- Learning to understand how robots are made
- Learning how to piece a robot together
- Learning components involved in making a robotic

Outcome of course:

- Build a Lego robot from the ground up
- Program the robot behaviour
- Be able to understand how to alter robot programming
- Learn how to test robots
- Be able to explain the fundamentals of making and key components a robot

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CREATIVE TECHNOLOGY STREAM

UNLOCK THE CREATIVE SIDE OF YOUR CHILD'S BRAIN USING TECHNOLOGY

MUSIC TECH: MUSIC TURNED DIGITAL:

Your child will experience the evolution of Music; composing their own beats and rhythms, from acoustic to digital, as they learn more about where Music came from - the cultures that inspired different genres - and how technology is now aiding in the development of Music.

Topics covered:

- Recording music – music production
- Basics of Garageband (Dependent on the school having the software) – music production
- Music genres – music theory
- Melodies & chords – music theory
- Past vs present music - history of music
- Understand rhythmic patterns and can respond to different rhythms

Course outcomes:

- Start to create their own music
- Make basic triad chords - piano
- Understand music from different time periods
- Understand key words for music tech such as rhythm, instrument groups, chords, melody, tempo and pitch
- Understand a scale on a piano/ can find C on a piano
- Can characterise a certain type of music – identify a genre

GRAPHIC DESIGN & DIGITAL PHOTOGRAPHY: NARRATIVE THROUGH DESIGN:

Your child will learn a number of different skills, including Story-telling, as they use their imaginative skills to tell different narratives, through Photography and Graphic Design.

Topics covered:

- Fundamentals of photography
- Different Types of camera
- ISO (camera's sensitivity to light)
- Angles, Aperture, Shutter speed
- Creating Professional lighting for any scenario
- Exposure & Camera Settings
- (EWS) Extreme Wide Shot, (MS) Medium Shot, Close Up Shot, (ECU) Extreme Close Up
- Frame Rates
- Resolution
- Photo Editing

Course Outcomes:

- Know how to take amazing photos that impress family and friends
- Be able to light your subjects with flash and natural lighting
- Understand how a camera truly works, so you can take better photos using manual settings
- Edit your own photos
- Compose images beautifully with basic photography rules

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ANIMATION & VIDEOGRAPHY: DIGITAL STORY-TELLING:

Your child will develop their creative story-telling, communication, and project planning skills; becoming accustomed to Digital Video Editing, as they complete their very own animation.

Topics covered:

- Fundamentals of Videography
- ISO (camera's sensitivity to light)
- Angles, Aperture, Shutter speed
- Creating Professional lighting for any scenario
- Exposure & Camera Settings
- (EWS) Extreme Wide Shot
- (MS) Medium Shot
- (ECU) Extreme Close Up
- Rule of Thirds
- Panning
- Tilting
- Frame Rates
- Resolution
- Video Editing and Production

Course Outcomes:

- Shoot Professional standard video by utilizing shot composition
- Film People, Landscapes, and architecture like a pro
- Optimize your camera settings for taking better video
- Apply storytelling to your shots to instantly boost production quality

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