



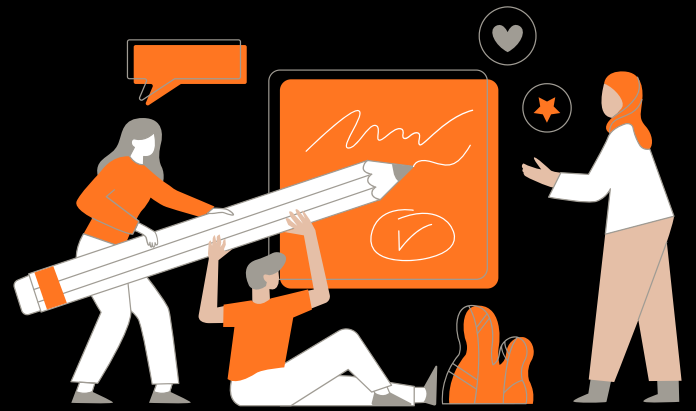
# YOUNG LEARNER SUMMER

DUBLIN  
GALWAY  
ATHLONE  
LONDON



STEAM WORKSHOPS  
EVENING ACTIVITIES  
& WEEKEND EXCURSIONS

# SAMPLE WORKSHOPS



What is **STEAM**?

STEAM is an integrated approach to learning that uses **Science**, **Technology**, **Engineering**, **Arts** and **Mathematics** as portals for exploration and discovery.

**S**

## SCIENCE

Lab Experiments | Home Economics & Baking (Food Science) |  
Crime Investigation

**T**

## TECHNOLOGY

Phone Holder Experiments | Electronics workshops

**E**

## ENGINEERING

Robotics (using and programming Mbots) | Materials Workshop

**A**

## ARTS

Photography | Music & Songwriting | Drama & Performance |  
Illustration | Painting

**M**

## MATHEMATICS

Construction Challenge | Astronomy | Problem Solving Activities

**Other**

## ACTIVITIES & EXCURSIONS

Group activities and visits: exploring every corner of the Emerald Isle.



Why is **STEAM** so important?

It's an educational model that builds the creative problem-solving and critical thinking skills students need in the 21st Century workforce. It is also one of the keys to solving humanity's biggest challenges in the years to come.

# S T E A M WORKSHOPS.

**STEAM** allows students to enhance their creativity and critical thinking - skills which are essential for thriving in the 21st century world.

Future Learning has adopted this pedagogical approach as it aligns with our unique teaching methodology: to enhance students' communication, collaboration, creativity and technology skills.

As part of our STEAM Summer programme, we offer a series of exciting STEAM afternoon workshops delivered by teachers with expertise in the relevant subject areas and which challenge our students to work collaboratively on fun hands-on tasks. Here you will find samples of the STEAM workshops we have provided on past STEAM programmes.





# SCIENCE & TECHNOLOGY

## ROBOTICS

Do you dream of inventing a robot to do all the jobs you hate doing? Well, this workshop is for you. We will introduce you to the robotics vocabulary you need to complete basic coding for your robot to make it move any direction you and your team tell it to. Then, we put this to the test by building an obstacle course for the robots and competing against the other teams. Will your robot be the ultimate victor - or will it crash and burn? Your coding skills and teamwork will decide!

---

## ELECTRONICS

This is a favourite among students! With this practical activity you will have the opportunity to work with wires, batteries and electrical components to learn the principles that power the devices all around us in a safe and friendly environment. During the workshop, you will design, create and present an individual piece of work which will include an element of electronics. This final product can then be taken home as a memory of their time in Ireland.

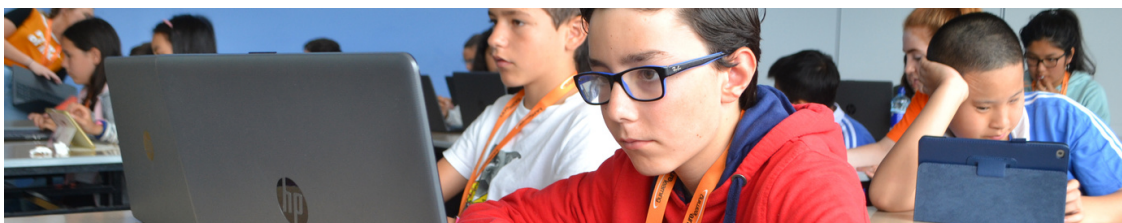
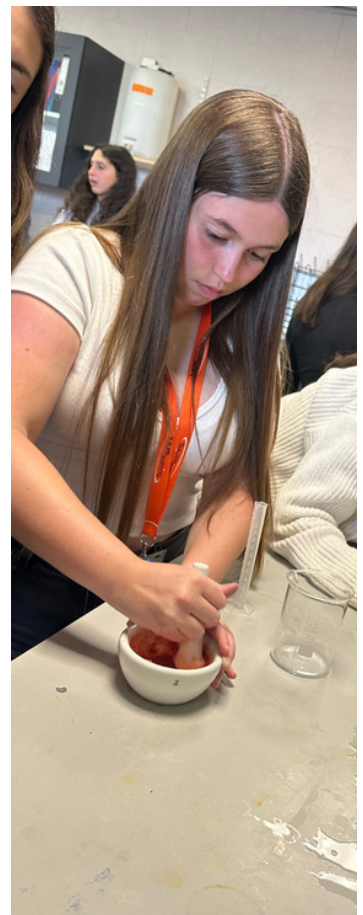
---

## FOOD SCIENCE (BAKING)

This is a hugely popular interdisciplinary activity which allows you to consider the science behind that delicious treat. Working in teams under the supervision of a qualified teacher, you will be challenged to prepare and bake a variety of Irish and international recipes. While you are beating those eggs and sifting that flour, you will get a chance to practise your communication, collaboration and problem solving skills in English. Whether the recipe of the day is scones, brown bread or cookies, everyone always seems to enjoy the results!











# MATHS & ENGINEERING

## ASTRONOMY AND SPACE

Another activity which guarantees explosive results! Guided by your teacher, you will learn about the world of astronomy, exploring the planets' relationship to one another by building a scale model, and then, in teams, you will build a rocket and launch it. While we cannot promise that you will reach Mars, we can ensure that you learn how to work together to follow instructions in English and have plenty of fun along the way.

## MATERIALS WORKSHOP

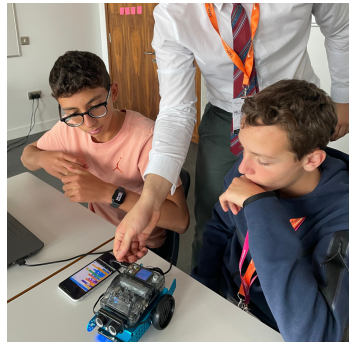
A practical activity, students will have the opportunity to work with materials such as wood, plastics and metal in a safe and friendly environment. During the workshop, students will design, create and present an individual piece of work. An example is a mobile phone holder, wood carving or decorative metalwork etc. This can then be taken home as a memory of their time in Ireland.

## CONSTRUCTION CHALLENGE

This workshop offers the chance for you and your teammates to build your very own standing tower out of wood. Precision and balance are the challenge in this game - listen closely to the teacher's instructions and work together to solve any problems that you may encounter along the way.











# THE ARTS

## PHOTOGRAPHY

We are all 'snap happy' these days, taking selfies on our phone, but this workshop will use a knowledge of how light and lenses work to push the boundaries of your creativity beyond the simple selfie, challenging you and your team to create unique photographic works of art using the latest photo editing software and techniques. Through exploring diverse themes such as a sense of place, digitization of the urban landscape or the essence of what constitutes culture, you will brainstorm to capture your vision on a digital canvas to demonstrate how photography is the true fusion of technology and artistic expression.

## MUSIC AND SONGWRITING

In this era of earbuds, music is a constant backdrop to practically everything we do. Our lives have their own soundtrack composed of our favourite songs. Whether you are musical or not, whether you play an instrument or not, these workshops will give you a chance to explore the technology and creativity behind music and its production. Through creating your own beats to writing your own song lyrics or many other musical devices, our expert teachers will guide you as you develop your own unique form of musical expression and you may even discover a hidden talent along the way.

## DRAMA AND PERFORMANCE

Ireland is increasingly known for its prowess in the field of drama, with major series such as Game of Thrones being filmed on location around the country, and Irish movie makers, screenwriters and actors featuring regularly in international awards. In these workshops, you will get a chance to follow the lead of actors such as Cillian Murphy, Saoirse Ronan and Michael Fassbender and 'tread the boards!' Working in teams and inspired by prompts (such as traditional Irish legends for example), you will devise a script, produce and make a video recording of an original production.

