

# Trinity Walton STEM Programme



**emerald**<sup>®</sup>  
cultural institute

Experience Tradition, Embrace Innovation

Emerald, in collaboration with the prestigious Trinity Walton Club, is delighted to offer a new and unique programme that allows students to enhance their STEM knowledge and skills while improving their English language.

## Profile:

Trinity Walton Club was named after Ireland's first Nobel Laureate for Science, Ernest Walton (06 October 1903 – 25 June 1995). The Club is a STEM (Science, Technology, Engineering and Maths) club based at Trinity College Dublin, where students connect with like-minded individuals and STEM role models.



**Trinity College Dublin**  
Coláiste na Tríonóide, Baile Átha Cliath  
The University of Dublin



Students aged between 14-17 will join a STEM camp at Trinity Walton Club, in Trinity College Dublin. They will have the opportunity to expand their scientific vocabulary, as well as enhancing their problem-solving and critical thinking skills. Learners will work in teams alongside STEM experts and engage in activities such as designing mathematical functions; building micro controlled projects; having fun with Newton's laws of motion.



## Tuition Hours:

Each week, students will enjoy 10 hours of STEM sessions and 10 hours of English for STEM per week in the mornings. Additional afternoon activities and full weekend excursions will allow students to experience Irish life and culture.

## Dates and Availability:

This programme runs for two weeks on set dates in July and August. Please check our Price List for dates and contact the Institute for availability. The programme is open to both groups and individual students.

## Levels:

Students must have a minimum level of Upper Intermediate (CEFR B2) in order to participate in the programme and will be required to take an English entry test before receiving the course confirmation. Should students not have the level required they will be redirected to an alternative course option.

## Course Duration:

The programmes runs for two weeks on set dates.

## Age group:

The programme is available for students aged 14-17.

## Location:

Students will be accommodated in the Trinity Hall residence in Dartry Road. Accommodation is in single or twin en-suite rooms. Classes will take place on the Trinity College campus, in Dublin city centre. Transport from the residence to the city centre and back is included.



## What is included in the STEM Programme fee?

20 hours of tuition per week (10 hours of STEM sessions and 10 hours of English tuition)

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Use of textbooks and teaching materials

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Emerald and Trinity Walton Diploma upon completion of course

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Guided discovering Dublin tour

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Activities every afternoon and evening (2 activities per week in the evening for the homestay programme)

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One full-day excursion every weekend to places of cultural interest

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Welcome kit with guides and maps

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Full-board residential accommodation with breakfast and dinner in the Trinity Hall residence and lunch (Monday-Friday) in Trinity College

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Enrolment, registration and administration fees

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Transport costs to and from school and to and from ECI activities where necessary

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## Supplements:

Return airport transfers

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Additional full-day excursions (includes transport, guide and entrance fees)

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## Sample programme

for 14-17 age group

Week 1	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8.00 – 9.00		Breakfast	Breakfast	Breakfast	Breakfast	Breakfast	Breakfast
09.30 – 11.30	Arrival	Level test & Orientation	Physics – Waves and oscillations	English for STEM	Engineering – Force analysis of bridges	English for STEM	Visit to Birr Observatory
11.30 – 11.45		Break	Break	Break	Break	Break	
11.45 – 13.45		Maths – Solving & Creating Problems and functions	English for STEM	Technology & Project Work – Coding and microelectronics	English for STEM	11.45 – 12.45 Technology – Coding and microelectronics 12.45 – 13.45 STEM/Vocabulary quiz	
13.45 – 14.45		Lunch	Lunch	Lunch	Lunch	Lunch	
14.45 – 17.00		City Centre Orientation	Visit to National Gallery	Visit to Botanic Gardens	Emerald Clubs	Book of Kells	
18.00 – 19.00		Dinner	Dinner	Dinner	Dinner	Dinner	
Evening	Welcome and Ice-Breakers	Sports	Irish Music Evening	Treasure Hunt	Themed Disco	Movie Night	Challenge / Games Night

Week 2	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
08.00 – 09.00		Breakfast	Breakfast	Breakfast	Breakfast	Breakfast	Breakfast
09.30 – 11.30	Free Day	English for STEM	Technology & project Work – Robot build	English for STEM	Maths – Number Theory	English for STEM	Visit to Malahide & Howth
11.30 – 11.45		Break	Break	Break	Break	Break	
11.45 – 13.45		Physics – Mechanics and Newton’s Laws	English for STEM	Engineering – Fluids and aerodynamics	English for STEM	11.45 – 12.45 Technology – Robot test 12.45 – 13.45 STEM/Vocabulary quiz	
13.45 – 14.45		Lunch	Lunch	Lunch	Lunch	Lunch	
14.45 – 17.00		Visit to Museum of Natural History	Visit to EPIC Ireland	Emerald Clubs	Visit to St. Patrick’s Cathedral	Graduation	
18.00 – 19.00		Dinner	Dinner	Dinner	Dinner	Dinner	
Evening	Table Quiz	Talent Show	Karaoke Evening	Magic Show	Themed Disco	Movie Night	Challenge / Games Night