The Royal Institution
Science Lives Here

Hands-on workshops for curious minds

Your guide to our 2022 holiday workshops programme

Visit the Ri this July and August for our action-packed programme of hands-on workshops from seven to eighteen year olds

About Ri Holiday Workshops

Running from 25 July to 26 August, our Holiday Workshops give students the chance to expand their knowledge and learn outside the school curriculum in an interactive, engaging environment. With more than 100 sessions to choose from, there is sure to be something for everyone.

Laboratory science workshops are run by our team in the L'Oréal Young Scientist Centre at the Royal Institution, offering the chance to be a scientist for the day by experiencing a range of lab-based activities. The mathematics, engineering and computer science workshops are devised by the Ri Masterclasses team and are led by experts from across industry and academia.

All workshops are run inside the Royal Institution building in central London where many famous scientists have made discoveries that still shape our lives today.

How to book

To book visit rigb.org/whats-on

Tickets are available on a first come, first served basis.

Prices
Half day workshop: £35 (Ri YM £29.75)
Full day workshop: £50 (Ri YM £42.50)

Please visit the website for specific full day workshop pricing.

Workshops are designed with specific ages in mind to ensure all students can get the most out of them. Because of this, we cannot be flexible with ages so please make sure you book the correct workshops.

Ri Young Members receive 15% off all holiday workshops – Plus free and discounted tickets, and access to the CHRISTMAS LECTURES ballot.

From £30 per year; visit rigb.org/membership to find out more!

The Royal Institution
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SUMMER SCHOOLS SESSIONS IN **MATHEMATICS**, **ENGINEERING**, **COMPUTER SCIENCE** AND **LABORATORY SCIENCE**

BOOK AT RIGB.ORG

AGE 7–9

WEEK 1 25–29 Jul		WEEK 2 1–5 Aug		WEEK 3 8–12 Aug		WEEK 4 15–19 Aug		WEEK 5 22–26 Aug*	
Magic squares	Mon	Cosmetic chemistry	Tue	Spectacular colour chemistry	Mon	The magic of computer science	Mon	Fantastic plastic	Mon
Beyond Sudoku	Tue	Codes and ciphers	Tue	ScratchMaths	Tue	AI, but where is the intelligence	Tue	Becoming a useability expert	Mon
The Maths and Science of Bubbles x2	Tue	Building with STIXX	Tue	The mathematics of rainbows	Tue	Intro to BBC Micro:bit	Wed	Building with STIXX	Tue
Hide and seek in space	Wed	It's all in your head	Wed	Anamorphic art	Wed	ScratchMaths	Thu	Mathemagics	Thu
1.618: the golden ratio x2	Thu	Codes and ciphers	Thu	Chases and escapes	Thu			Cosmetic chemistry	Thu
Fabulous fractals x2	Fri			Extract your own DNA	Thu			Networks	Fri
								Cosmetic chemistry	Tue 30*
								Extract your own DNA	Thu 1*

AGE 10–12

Magic squares	Mon	Investigations with Pascal's triangle	Mon	The mathematics of rainbows	Tue	The magic of computer science	Mon	Becoming a useability expert	Mon
Beyond Sudoku	Tue	Codes and ciphers	Tue	ScratchMaths	Tue	AI, but where is the intelligence	Tue	Fantastic plastic	Mon
Hide and seek in space	Wed	Building with STIXX	Tue	Anamorphic art	Wed	Magnets and motors	Tue	Building with STIXX	Tue
Crash testing x 2	Thu	It's all in your head	Wed	Chases and escapes	Thu	Intro to BBC Micro:bit	Wed	Electrical circuits x2	Wed
Hexagons x2	Fri	Cosmetic chemistry	Wed	Geometry, code and embroidery x2	Thu	ScratchMaths	Thu	Drawing Islamic geometry x 2	Thu
		Codes and ciphers	Thu	Extract your own DNA	Fri	Loudspeakers and acoustics x 2	Fri	Mathemagics	Thu
		Probability and game shows x2	Thu					Cosmetic chemistry	Fri
		Polygons, Polyhedrons Flexagons and Topology	Fri					Networks	Fri
								Cosmetic chemistry	Wed 31*
								Extract your own DNA	Fri 2*

AGE 13–15

Introduction to Space Science	Fri	Patterns and predictions	Wed	Forensics	Tue	Making music and sound with BBC Micro:bit	Tue	Forensics	Mon
		Stories from maths	Thu	Where is engineering?	Wed	Magnets and motors	Fri	Drawing Islamic geometry	Wed
		Spectacular colour chemistry	Fri	How big is the Universe?	Fri			Skateboards to starships	Fri

AGE 16–18

An expanding Universe of Knowledge	Mon	Spectacular colour chemistry	Thu	Introduction to Space Science	Mon	Magnets and motors	Wed	Bacterial evolution	Tue
		The mathematics of TV game shows	Fri	Forensics	Wed	Stories from maths	Thu	Skateboards to starships	Thu
				Introduction to robotics	Mon-Fri	Mathematics for astronomers	Fri		

*some workshops are in the week commencing 29 August