



HOLIDAY WORKSHOPS SESSIONS IN **MATHEMATICS**, **ENGINEERING**, **COMPUTER SCIENCE** AND **LABORATORY SCIENCE**

BOOK AT RIGB.ORG

WEEK 1 29 Jul–2 Aug **WEEK 2** 5–9 Aug **WEEK 3** 12–16 Aug **WEEK 4** 19–23 Aug **WEEK 5** 26–30 Aug

AGE 7–8

Intro to BBC Micro:bit Mon	Codes and ciphers Tue	Cosmetic chemistry Mon	Magic of computer science Mon	Around the world in 8000 seconds Tue
Around the world in 8000 seconds Tue	Fractal fun Wed	Magic of computer science Tue	Colour chemistry Tue	Exploring the Solar system Wed
Drawing Islamic geometric patterns Wed		AI, but where is the intelligence Fri	Building with STIXX Thu	Fractal fun Wed
Codes and ciphers Thu				Extract your own DNA Thu

AGE 9–11

Intro to BBC Micro:bit Mon	Investigations with Pascal's triangle Mon	Magic of computer science Tue	Magic of computer science Mon	Extract your own DNA Tue
Around the world in 8000 seconds Tue	Codes and ciphers Tue	Cosmetic chemistry Tue	Mathematical magic x2 Tue	Around the world in 8000 seconds Tue
Drawing Islamic geometric patterns Wed	Fractal fun Wed	AI, but where is the intelligence Fri	Electrical circuits x2 Wed	Exploring the Solar system Wed
Codes and ciphers Thu	Electrical circuits x2 Thu		Crafting with code x2 Wed	Fractal fun Wed
Polygons, polyhedrons, flexagons and topology Fri			Building with STIXX Thu	
			Colour chemistry Thu	

AGE 12–14

Making music and sound with BBC Micro:bit Tue		To the fourth dimension and beyond Tue	Where is engineering Tue	Domino computing master class Tue
Forensics Tue and Wed		Colour chemistry Thu	Introduction space science Wed	Extract your own DNA Tue
Patterns and predictions Wed				
Drawing and painting Islamic geometry Thu				

AGE 13–15

Computing with cards and dominoes Tue
Fractal geometry Wed

AGE 15–18

Introduction to robotics Mon - Fri	An expanding knowledge of the Universe Tue
Forensics Thu	