

CORK MATHEMATICS ENRICHMENT,

INTERMEDIATE GROUP: TY-s, returning 3rd years, new 5th year students

SATURDAYS, 10:00–13:00, WESTERN GATEWAY BUILDING room 107

Date	Lectures: Click on titles to download resources		Exercises: Click on titles to download resources	
	Topic	Staff	Topic	Tutors
14-18 Nov	IrMO Round 1 - Students selected by schools based on the Round 1 results are invited to join the programme			
26 st Nov	Pigeonhole Principle	Anca Mustata	Pigeonhole Principle	David, Aidan, Leo
3 rd Dec	Number theory	David Goulding	Number theory	David, Aidan
10 th Dec	Number theory	David Goulding	Number theory	Keegan, Andrew
17 th Dec	Modular Arithmetic	Anca Mustata	Modular Arithmetic	Leo
19 th Dec	No class		No class	
14 th Jan	Combinatorics	Anca Mustata	Mastermind	Keegan, Aidan
21 th Jan	Combinatorics	Anca Mustata	Combinatorics1	David, Leo, Andrew
28 rd Jan	Geometry	Anca Mustata	Geometry	David, Leo
4th Feb	EGMO selection	10:00-13:00	2017 Solutions and Results	10:00-13:00
11 th Feb	Number Theory	Dave G	Number Theory	Keegan, Aidan, Andrew
18 th Feb	Number Theory	Tom Carroll	Number Theory	David, Aidan
25 th Feb	No class		No class	
4 th March	Geometry lectures and properties I, II and III	Anca Mustata	Parallel Geometry	Keegan, Leo
11 th March	Geometry	Anca Mustata	Cyclic Geometry	David, Aidan,
18 th March	No class		No class	
25 th March	Quadratics	Claus Koestler	Quadratics and Inequalities	Keegan, Andrew, Leo
1 st April	Inequalities and Graphs	David Henry	Inequalities2	David, Aidan
8-15 April	No class	No class	No class	
6-12 April	The Irish team participates in the European Girls Mathematical Olympiad in Zurich			
22 April	Meet in room 107 and walk to computer lab	Michael Cronin	Purple Comet international team competition	Leo
29 th April	Polynomials	Ben McKay	Polynomials 1 , Polynomials 2	Keegan, Andrew
6th May	IrMO	10:00-13:00	IrMO	14:00-17:00

The top 4 students in the **EGMO** selection will be invited to participate in the **European Girls Mathematical Olympiad** on **10-16 April** in **Busteni, Romania**. The top 6 students at the **Irish Mathematical Olympiad** will be invited to participate in the **57th International Mathematical Olympiad** which will take place in **Hong-Kong** during **6-16 July, 2016**.

A larger group of students making the IrMO roll of honour will become part of the **Irish Olympiad squad** and will be able to take part in training camps and special remote training sessions in preparation for the **IMO in 2017**.

