

UKMT Junior and Intermediate Summary

Junior Challenge JMC

(years 7 - 8)

135 marks

25 ques, 1 hr multiple choice

Roughly 250,000 participants

April

Bronze (questions 1-8 correct)
25% of students.
Aim for 60 marks to be sure

Silver (questions 9-16 correct)
16-17% of students.
Aim for 75 marks to be sure

Gold (questions 17-25 correct)
8-9% of students
Aim for 90 marks to be sure

If achieve a gold in JMC plus aim 90 marks to be sure
(top 4%)
Roughly 10,000 participants

Junior Kangaroo
135 marks, 25 ques, 1 hr
all multiple choice (MC)
June

Merit

Aim for 98 marks to be sure

If achieve a gold in JMC plus aim for 110 marks to be sure
(top 0.5%)
Roughly 1200 participants

Junior Olympiad
70 marks, 16 ques, 2h
First 10 q answer only
Next 6 q full answer
June

Merit: aim for 15-20 marks to be sure
Distinction : aim for 40 marks to be sure

Top 200 Students Get Medals

Bronze aim for 45 marks to be sure

Silver aim for 55 marks to be sure

Gold aim for 60 marks to be sure

All 200 medalists receive a book prize

Intermediate Challenge IMC

(years 9 - 11)

135 marks

25 ques, 1 hr multiple choice

end of Jan/Feb

Bronze (questions 1-8 correct)
25% of students.
Aim for 50 marks to be sure

Silver (questions 9-16 correct)
16-17% of students.
Aim for 65 marks to be sure

Gold (questions 17-25 correct)
8-9% of students
Aim for 80-85 marks to be sure

Must be in year 9 or below
aim for 70 marks to be sure

Grey Kangaroo
135 marks, 25 q MC, 1 hr
March

Merit

Top 25%

Must be in years 10 - 11
aim for 80 marks to be sure

Pink Kangaroo
135 marks, 25 q MC, 1 hr
March

Merit

Top 25%

European Kangaroo

Must be in year 9 or below
aim for 95 marks to be sure

Cayley Olympiad
60 marks, 6 q, 2 hrs
March

Merit 10 marks

Distinction 41 marks

Bronze 50 marks (next 50)

Intermediate Olympiad

Must be in year 10
aim for 105 marks to be sure

Hamilton Olympiad
60 marks, 6 q, 2 hrs
March

Merit 10 marks

Distinction 41 marks

Silver 46 marks (next 30)

Must be in year 11
aim for 110 marks to be sure

Maclaurin Olympiad
60 marks, 6 q, 2 hrs
March

Merit 8 marks

Distinction 24 marks

Gold 28 marks (top 20)

Students who qualify for the Maclaurin Olympiad can be selected for the National Mathematics Summer School in July. They get sent to the International Maths Olympiad training camp/squad. They are selected by lottery which selects 48 of the top 1.5% scores in the IMC.

Scoring Summary

Junior Challenge and Junior Kangaroo

Intermediate Pink/Grey Kangaroo :

- 5 marks for correct answers to questions 1-15
- 6 marks for correct answers to questions 16-25
- 0 marks for incorrect/unanswered answers to questions 1-25

Junior Olympiad:

Section A: 1 mark for correct answers to questions 1-10. They are not multiple choice but have a single numerical answer.

Section B: up to 10 marks for questions 11-16. Partial marks are given for correct working and depend on the clarity of presentation and explanation (i.e. your working out!) as much as the answers themselves. A solution with a correct answer may only score 2 out of 10 if not accompanied by any working. An incomplete solution without the right answer might score 2 or 3 marks, and near complete and complete solutions could score 8,9 or 10 marks each. If a solution is judged to be incomplete, it is marked on a 0+ basis, maximum 3 marks. If it has an evident logical strategy, it is marked on a 10-basis. Rather than to try to rush through the section and answer everything, it is advised that students should fully answer the questions that they can. This is because incomplete answers can only score a maximum of 3 marks. Students are encouraged to write complete answers to 2-4 questions rather than hurry through incomplete answers to all 6.

Intermediate Challenge (includes negative marking):

- 5 marks for correct answers to questions 1-15
- 6 marks for correct answers to questions 16-25
- 0 marks for incorrect answers to questions 1-15
- 0 marks for unanswered questions
- -1 marks for incorrect answers to questions 16-20
- -2 marks for incorrect answers to questions 21-25

Intermediate Olympiad (Cayley, Hamilton & Maclaurin):

All 6 questions are scored like section B of Junior Olympiad.