

## **O Level Mathematics (syllabus D) (4024)**

**Will students be given a formula sheet to help them in the exam or do they need to memorise this information?**

There is no formula sheet provided with Mathematics examinations. Students are not expected to memorise complicated formulae but may need to remember simple equations such as the area of a circle or volume of a cube.

**Are students permitted to use calculators or mathematical tables in the exam?**

Neither calculators nor mathematical tables are permitted in paper 1. Candidates should use calculators in paper 2, but mathematical tables are allowed instead if a candidate has no access to a calculator. The mathematical tables are available from our publications department but not supplied by CIE. Note that calculators must satisfy the regulations in the CIE Handbook for Centres, so calculators with a graphic display are prohibited.

**Can students write in pencil on the mathematics examination paper?**

In section 3.2.6 Stationery, Materials and Other Equipment in the Handbook to Centres it states:

“Candidates must write their answers legibly in black or blue ink. Candidates should be warned that the use of pale blue ink contributes to illegibility. Red ink must not be used. Soft pencil (type B or HB is recommended) must be used for multiple choice tests. Pencils or pens in other colours may be used for diagrams and maps only.”

Mathematical constructions and graphs would fall into the same category as the last sentence and so it is permissible to use a pencil for questions assessing these skills. Other than that, blue or black ink should be used as (a) it can't be altered after the examination and (b) the examiner can see the way the student was developing the question even though the final answer may be incorrect.

**What are the main differences between IGCSE and O Level Mathematics?**

IGCSE Maths is available with or without Coursework, whereas O Level Maths is only available without Coursework.

IGCSE has Core and Extended options (grades C-G and A\* to E available respectively), O level has grades A to E available.

O level Maths has a non-calculator paper whereas IGCSE Maths requires a calculator for both papers.

Examining time: 4.5 hours for O level Maths compared with 3 hours for Core IGCSE Maths and 4 hours for Extended IGCSE Maths.

There is no question choice for IGCSE Maths; for O level Maths there is limited question choice in Paper 2.

O level Maths question paper weighting is 50% per paper; IGCSE Maths is 35% for the first paper, 65% for the second.