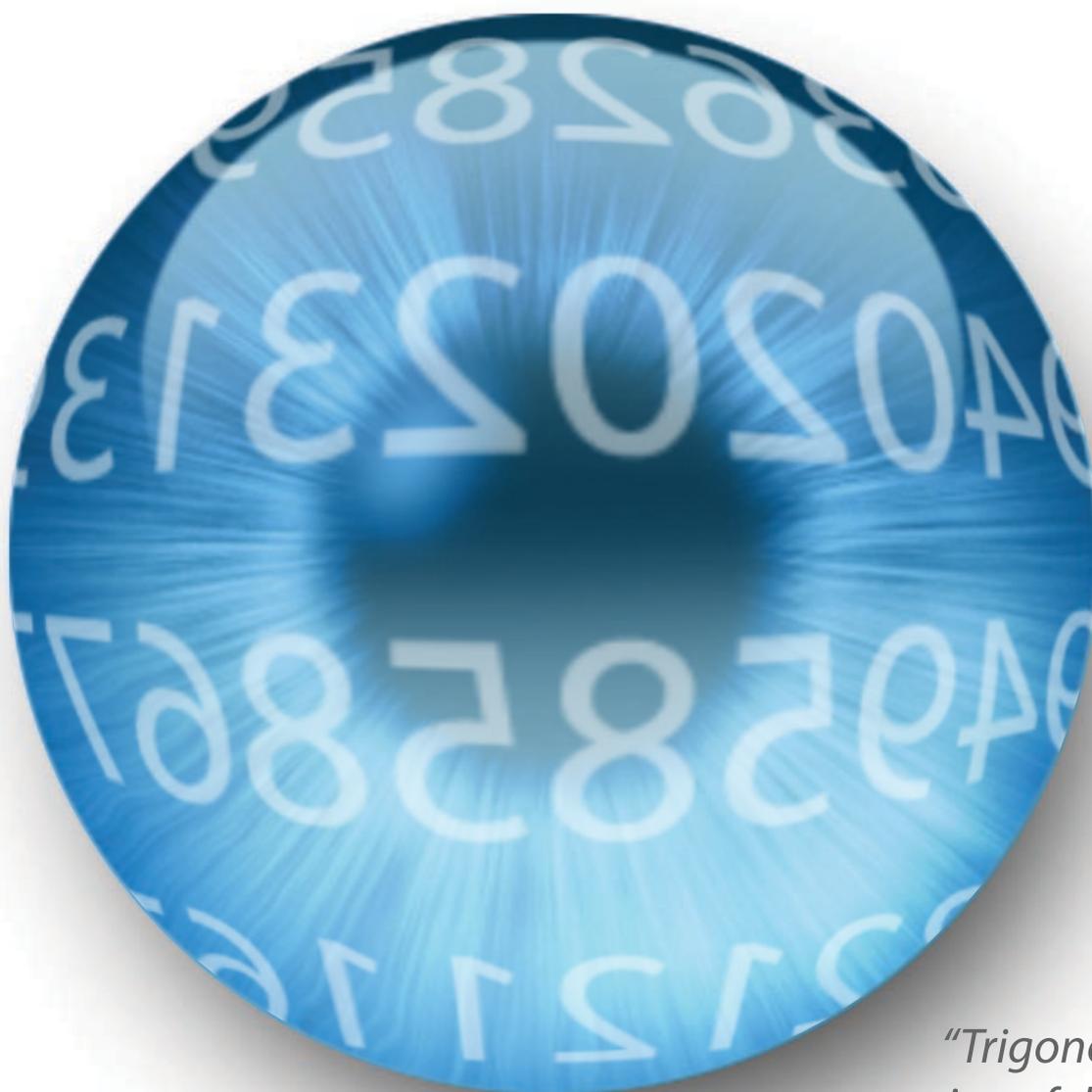# OCR

RECOGNISING ACHIEVEMENT

Your guide to

OCR GCSE
Mathematics B

*"Trigonometry is
a sine of the times."*
Unknown Author

Mathematics for the modern world

GCSE Mathematics - what's in it for me?

This brand new Maths GCSE gives you great opportunities, not only to study traditional mathematical topics like number, algebra, geometry and statistics, but also how to use these in your everyday life.

The qualification has also been designed to develop the broader mathematical skills of problem solving, reasoning and generalising.

You'll study and develop your knowledge of:

- Solving complex calculations by breaking down a problem into simpler steps
- Applying mathematical knowledge and understanding to solve everyday problems
- Thinking and communicating mathematically – precisely, logically and creatively
- Using ratio and proportion, fractions, decimals and percentages
- Using different formulae and expressions, setting up and solving equations and working with graphs
- Interpreting scales and maps, working with shapes, finding areas and volumes and using trigonometry to solve problems
- Analysing data and graphs, correlation, calculating and interpreting different statistical measures and the study of chance
- Using spreadsheets and databases to present your work.

How could it help with my future?

Your Maths GCSE is highly valuable in the workplace, opening up opportunities for many different career paths such as architecture, banking and finance, business consultancy, engineering, game design, health and medicine, IT and computer science, psychology, science, teaching and many more.

This Maths course also encourages the development of characteristics valued by employers, such as the ability to:

- Speculate and make decisions
- Work effectively with others
- Explain and prove your ideas
- Communicate clearly to all levels of business personnel
- Interpret, reflect on and solve problems and issues.

How will my work be assessed?

This GCSE is assessed by two exam papers taken in the same series. You'll take either the two Foundation tier papers or the two Higher tier papers.

You'll take:

Foundation tier

Paper 1   1½ hours long and worth 50% of the total marks. You may **not** use a calculator in this paper.

Paper 2   1½ hours long and worth 50% of the total marks. You may use a calculator in this paper.

Higher tier

Paper 3   1¾ hours long and worth 50% of the total marks. You may **not** use a calculator in this paper.

Paper 4   1¾ hours long and worth 50% of the total marks. You may use a calculator in this paper.

What grades could I get?

You could achieve any grade from A* to E if you are entered for the Higher tier and any grade from C to G if you are entered for the Foundation tier, depending on how well you do.

"There are things which seem incredible to most men who have not studied mathematics."

Aristotle