

# MBA

## GCSE Maths Revision

Exam details:

Edexcel GCSE Mathematics

**You must have:** ruler, protractor, pair of compasses, pen, HB pencil, eraser, calculator (for calculator papers only). Tracing paper may be used.

### Maths Command Words

#### Estimate

Don't work out exactly!  
Round the numbers to one significant figure first.

Estimate  $4.7 \times 6.2$   
Answer:  $5 \times 6 = 30$

#### Explain

You must state why.

#### Work out

A written or mental calculation is needed.

Work out  $6^2$   
Answer:  $6 \times 6 = 36$

#### Simplify

Collect like terms together

Simplify  $e + 7e$   
Answer:  $8e$

#### Give your answer in its simplest form

Cancelling of a fraction or ratio is needed.

$\frac{12}{15}$   
simplified is  $\frac{4}{5}$

#### Calculate

You will need to do a sum either with or without your calculator.

#### Expand

Multiply out the brackets

Expand  $4(3x - 2)$   
Answer:  $12x - 8$

#### You must show your working

If you don't show your working you won't get ALL the marks!

#### Describe fully

Usually with transformations:

Translation by a vector (2 marks)  
Enlargement of a scale factor about a point (3 marks)  
Reflection in a mirror line (2 marks)  
Rotation through an angle about a point (3 marks)

#### Solve

Find the value of the variable in the question.

Solve:  $3x = 12$   
Answer:  $x = 4$

#### Factorise

To find factors and put brackets in.

Factorise  $6x + 10x^2$   
Answer:  $2x(3 + 5x)$

#### Sketch

An accurate drawing is not needed; freehand will do!

#### Construct, using ruler and compasses

Use your ruler and pair of compasses to make an accurate drawing.

#### Measure

Use a ruler or protractor to accurately measure lines or angles.

#### Diagram NOT accurately drawn

Don't measure angles or sides.

# Foundation Paper 1 – Topic List

- Evaluating indices
- Rounding to a given number of decimal places
- Simplifying expressions
- Solving equations involving fractions
- Write a fraction as a percentage
- Percentage of an amount
- Money problem solving
- Fraction calculations
- Fraction problem solving
- Writing a ratio and simplifying
- Scale drawings
- Pie charts
- Area of rectangles and triangles problem solving
- Substitution
- Area of circle problem solving
- Solving equation involving brackets
- Listing solutions that satisfy an inequality
- Percentage increase
- Product of primes
- Decimal multiplication
- Vectors



# Foundation Paper 2 – Topic List

- Collecting like terms
- Rounding to a given number of significant figures
- Bar charts
- Ordering fractions
- Money problem solving
- Probability
- Types of number
- Angles around a point
- Best buy problem solving
- Conversion graphs
- Using a calculator
- Rotations
- Describe a transformation
- Factorise into a single bracket
- Express a number in standard form in ordinary form
- Multiply in standard form
- Average speed worded problem
- Similar triangles
- Compound interest problem solving
- Error intervals
- Nth term



# Higher Paper 1 – Topic List

- Scatter graphs
- Product of primes
- Decimal multiplication
- Area of square and quadratics problem solving
- Parallel lines
- Mean problem solving
- Express a number in standard form in ordinary form
- Divide in standard form
- VAT problem solving
- Expand triple brackets
- Quadratic graphs – turning points and roots
- Negative fractional indices
- Fractional indices
- Ratio and fraction problem solving
- Volume of cone
- Probability
- Angle proof



# Higher Paper 2 – Topic List

- Venn diagrams and set notation
- Simultaneous equations
- Median from a frequency table
- Fraction, percentages and ratio problem solving
- Angles in a polygon problem solving
- Trigonometry – missing side
- Area and circumference of a circle problem solving
- Compound interest
- Combined ratio
- Inequalities – shaded regions
- Changing the subject of a formula
- Using an iterative formula
- Average speed problem solving
- Circle theorems problem solving



# Revision Resources:

## **Maths Genie**

Past paper questions on each topic area and GCSE papers with worked solutions

<https://www.mathsgenie.co.uk/gcse.html>

## **The GCSE Maths Tutor**

Videos of various topics

<https://www.youtube.com/@TheGCSEMathsTutor>

## **On Maths**

Complete past papers online

[https://www.onmaths.com/mock\\_exams/?archiveType=predictions](https://www.onmaths.com/mock_exams/?archiveType=predictions)

## **Corbett Maths**

Revise little and often by revising 5 GCSE style questions a day.

<https://corbettmaths.com/5-a-day/gcse/>

## **Sparx**

Use your student login to do some independent practice.

<https://welcome.sparxmaths.uk/>

## **How to revise Maths:**

[How do I revise for my GCSE Maths? – Corbettmaths](#)