GCSE Mathematics Foundation Tier

● Number ● Algebra ● Ratio, proportion and rate of change ● Geometry & measures ● Probability ● Statistics

Here is pretty much all the Foundation Tier content you could fit onto an A3 sheet of paper, including all the formulae you are expected to know for GCSE. An ✚ points to an illustrative example. The notes refer to the AQA subject content. Pi (π) is a math letter in the same family as p and q, but we use it to stand for 3.14159... don't take it into the examination!

BIDMAS

...or BODMAS. For the correct order of operations, take care when using a calculator.

1. Brackets
2. Indices (or Powers)
3. Division and Multiplication
4. Addition and Subtraction

Types of number

Integer: a "whole" number

Factors: the divisors of an integer

✚ Factors of 12 are: 1, 2, 3, 4, 6, 12

Multiples: a "times table" for an integer (add successive multiples)

✚ Multiples of 12 are: 12, 24, 36, ...

Prime number: an integer which has exactly two factors (1 and the number itself). Note: 1 is not a prime number.

HCF, LCM

Highest Common Factor (HCF)

✚ Factors of 6 are 1, 2, 3, 6
Factors of 9 are 1, 3, 9
HCF of 6 and 9 is 3

Lowest Common Multiple (LCM)

✚ Multiples of 6 are 6, 12, 18, 24, ...
Multiples of 9 are 9, 18, 27, 36, ...
LCM of 6 and 9 is 18

Prime factors

Write a number as a product of its prime factors, and indices for repeated factors

✚ $126 = 2 \times 3^2 \times 7$

Powers and roots

Special indices for any value of x

$$x^0 = 1$$

$$x^{-n} = \frac{1}{x^n}$$

✚ $$x^{-2} = \frac{1}{x^2} = \frac{1}{x \times x}$$

Calculating with fractions

Adding or subtracting fractions: use a common denominator...

✚ $$\frac{1}{3} + \frac{1}{5} = \frac{5}{15} + \frac{3}{15} = \frac{8}{15}$$

Multiplying fractions: multiply numerators and denominators...

✚ $$\frac{1}{3} \times \frac{1}{5} = \frac{1}{15}$$

Dividing fractions: "flip" the second fraction, then multiply...

✚ $$\frac{1}{3} \div \frac{1}{5} = \frac{1}{3} \times \frac{5}{1} = \frac{5}{3}$$

Fractions, decimals, percentages

Fraction to decimal: numerator ÷ denominator

✚ $\frac{1}{8} = 1 \div 8 = 0.125$

Use place values to change decimals to fractions. Simplify where possible.

✚ $0.45 = \frac{45}{100} = \frac{9}{20}$

Learn the most frequently used ones:

$\frac{1}{2}$	$\frac{1}{3}$	$\frac{2}{3}$	$\frac{1}{4}$	$\frac{3}{4}$	$\frac{1}{5}$	$\frac{1}{8}$
0.5	0.333...	0.666...	0.25	0.75	0.2	0.125

Units

Look for the biggest square number factor of the number:

✚ $\sqrt{200} = \sqrt{100} \times \sqrt{2} = 10\sqrt{2}$

Standard form

Standard form numbers are of the form: $a \times 10^n$ where $1 \le a < 10$ and n is an integer

Standard units

1 tonne = 1000 kilograms
1 kilogram = 1000 grams

1 kilometre = 1000 metres
1 metre = 100 centimetres
= 1000 millimetres
1 centimetre = 10 millimetres

1 day = 24 hours
1 hour = 60 minutes = 3600 seconds
1 minute = 60 seconds

Accuracy

Truncate: the number, then use a "decider digit" to round up or down.

Decimal places: use the decimal point

✚ 562.5683 to 1dp.
562.5 (< 6) = 562.57 to 2dp.

Significant figures: use the first non-zero digit.

✚ 562.5683 to 2sf.
5 (≥ 5) 683 = 560 to 2sf.
✚ 0.007735 to 3sf.
0.00773 (< 8) = 0.00773 to 3sf.

Error intervals

Find the range of numbers that will round to a given value:

✚ $x = 5.83$ (2 decimal places)
$5.825 \le x < 5.835$

✚ $y = 60$ (2 significant figures)
$55 \le y < 65$

Note use of ≤ and <, and that the last significant figure of each is 5

Algebraic notation

$$ab = a \times b$$
$$2y = y + y = y \times 2$$
$$a^2 = a \times a$$
$$a^3 = a \times a \times a$$
$$a^2b = a \times a \times b$$
$$\frac{a}{b} = a \div b$$

Expressions and formulae

An equation is true for some particular value of x

✚ $2x + 1 = 7$ is true only if $x = 3$

...but an identity is true for every value of x

✚ $(x + a)^2 = x^2 + 2ax + a^2$
(note the use of the symbol ≡)

Laws of indices

For any value n

$$a^n \times a^m = a^{n+m}$$
$$\frac{a^n}{a^m} = a^{n-m}$$
$$(a^n)^m = a^{nm}$$

✚ $$\frac{(3x)^2}{(2y)^3} = \frac{3x \times 3x}{2y \times 2y \times 2y} = \frac{3^2}{2^3} x^2 y^{-3}$$

Number grids

y = mx + c

Equation of straight line $y = mx + c$ m is the gradient, c is the y intercept

✚ Find the equation of the line that joins (0, 3) to (2, 11)

Find its gradient:

$$\frac{11 - 3}{2 - 0} = \frac{8}{2} = 4$$

...and its y intercept...

Points through (0, 3), so $c = 3$

Equation is $y = 4x + 3$

Parallel lines: gradients are equal

✚ $y = 2x + 3$ and $y = 2x - 1$ both have gradient 2 so are parallel.

Expanding brackets

$$a(b + c) = ab + ac$$

✚ $5(2x - 3y) = 5x - 15y$

✚ $$(x + a)(x + b) = x^2 + ax + bx + ab$$
$$(2x - 3)(x + 5)$$
$$= 2x^2 - 3x + 10x - 15$$
$$= 2x^2 + 7x - 15$$

Reverse of expanding is factorising: putting an expression into brackets.

Quadratics

Solve a quadratic by factorising.

✚ Solve $x^2 - 8x + 15 = 0$

Put into brackets (taking care with any negative numbers)...

$$(x - 3)(x - 5) = 0$$

...then either $x - 3 = 0$ so $x = 3$, or $x - 5 = 0$ so $x = 5$.

Difference of two squares

$$a^2 - b^2 = (a + b)(a - b)$$

✚ $x^2 - 25 = (x + 5)(x - 5)$

Simultaneous equations

✚ Solve $\begin{cases} 2x - 3y = 13 \\ 5x - 3y = 7 \end{cases}$

Multiply to match x terms or y or y

$$\begin{cases} 10x - 15y = 65 \\ 9x - 15y = 21 \end{cases}$$

Add or subtract to cancel...

$$10x - 9x = 65 - 21$$

Finally, substitute and solve...

$$2 \times 8 - 3x = 13, \text{ so } x = 3$$

Rearrange a formula

The subject of a formula is the term on its own. The rules that "balance" the formula to change its subject

✚ Make x the subject of

$$2x + 3y = z$$

Move subtract $3y$ from both sides...

$$2x + 3y - 3y = z - 3y$$

...then divide both sides by 2

$$x = \frac{z - 3y}{2}$$

Right angled triangles

Pythagoras' Theorem.
Links all three sides.
No angles.

$$a^2 + b^2 = c^2$$

The longest side of any right angled triangle is the hypotenuse; check that your answer is consistent with this.

Trigonometry.
Links two sides and one angle.
SOH | CAH | TOA

$$\sin\theta = \frac{\text{opp}}{\text{hyp}} \quad \cos\theta = \frac{\text{adj}}{\text{hyp}} \quad \tan\theta = \frac{\text{opp}}{\text{adj}}$$

Use "2nd$F$" or "SHIFT" key to find a missing angle

Special values of sin, cos, tan
Learn (or be able to find without a calculator)...

$x°$	$\sin x°$	$\cos x°$	$\tan x°$
0	0	1	0
30	$\frac{1}{2}$	$\frac{\sqrt{3}}{2}$	$\frac{1}{\sqrt{3}}$
45	$\frac{1}{\sqrt{2}}$	$\frac{1}{\sqrt{2}}$	1
60	$\frac{\sqrt{3}}{2}$	$\frac{1}{2}$	$\sqrt{3}$
90	1	0	

Areas and volumes

Area of triangle $= \frac{1}{2} \times$ base $\times$ height

Volume of cuboid = length × width × height

Area of trapezium $= \frac{1}{2}(a + b)h$

Circumference of circle $= \pi \times D$
Area of circle $= \pi \times r^2$

Arc length $= \frac{\theta}{360} \times \pi \times D$

Area of sector $= \frac{\theta}{360} \times \pi \times r^2$

Volume of cylinder = $\pi r^2 \times$ height

Volume of prism = area of cross section × length

Transformations

Reflection
- Line of reflection

Rotation
- Centre of rotation
- Angle of rotation
- Clockwise or anticlockwise

Enlargement
- Centre of enlargement
- Scale factor (SF) (If < 1 the shape will get smaller).

Translation
- Vector

Angle facts

Equal angles at parallel lines always use corresponding...

Angles on a straight line total 180°

Angles in a full turn total 360°

Interior angles in a triangle total 180°

Use this for the interior angles of any polygon...

...or 180° × (n − 2)

Exterior angles always total 360°

Averages

Mode: most frequently occurring
Median: put the data in numerical order, then choose the middle one
Mean = $\frac{\text{total of items of data}}{\text{number of items of data}}$

Frequency tables

Height (h cm)	Frequency
$150 < h \le 160$	12
$160 < h \le 170$	15
$170 < h \le 180$	8

Modal class: $150 < h \le 160$

Estimate mean: add a row for midpoint, and a row for midpoint × frequency

Height (h cm)	Frequency	Midpoint	Midpoint × Frequency
$150 < h \le 160$	12	155	1860
$160 < h \le 170$	15	165	2475
$170 < h \le 180$	8	175	1400
	35		5735

Estimate mean $= \frac{5735}{35} = 163.9$ cm

Inequalities

Triangular numbers

1st	2nd	3rd	4th	5th
1	3	6	10	15

Square numbers (n^2 = n × n)

1st	2nd	3rd	4th	5th
1	4	9	16	25

Cube numbers (n^3 = n × n × n)

1st	2nd	3rd	4th	5th
1	8	27	64	125

nth term of an arithmetic (linear) sequence is $an + d$

✚ sequence 5, 8, 11, 14, ... is
$3n + 2$ (always increase by 3)
first term is $3 \times 1 + 2 = 5$

Geometric sequence: multiply each term by a common ratio

✚ 3, 6, 12, 24, ... (ratio is 2)

Fibonacci sequence: make the next term by adding the previous two ...

✚ 1, 1, 2, 3, 5, 8, 13, 21, 34, ...

Inequalities

p = [illegible]

$p = 0$	impossible
$0 < p < 0.5$	unlikely
$p = 0.5$	evens
$0.5 < p < 1$	likely
$p = 1$	certain

Probability basics

Multiply for independent events

✚ P(3 on first and 5 on second)

$$\frac{1}{6} \times \frac{1}{6} = \frac{1}{36}$$

Add for mutually exclusive events

✚ P(3 or 4 on die)

$$\frac{1}{6} + \frac{1}{6} = \frac{2}{6} = \frac{1}{3}$$

Apply these rules to tree diagrams.

Parts of a circle

Direct proportion

Use a ratio for unequal sharing

✚ Divide £400 in the ratio 1 : 3 : 4
1 + 3 + 4 = 8, then £400 ÷ 8 = £50
1 × £50 = £200, 3 × £50 = £150
4 × £50 = £200 (check: £200 + £150 + £50 = £400 ✓)

Ratio and fractions

Link between ratios and fractions

✚ Share in girls to boys ratio 2 : 3

$\frac{2}{5}$ are boys, $\frac{3}{5}$ are girls.

Percentages

$$x \text{ percent of } n = \frac{x}{100} \times n$$

✚ Increase £50 by 20%.

$$\frac{120}{100} \times 50 = 1.20 \times 50 = £60.00$$

$£100 \times £0.80 = £73.60$

$$y \text{ as a percentage of } x = \frac{y}{x} \times 100\%$$

✚ The population of a town increases from 15000 to 16250. Find the percentage increase.

$$\frac{\text{increase}}{\text{original}} \times 100\% = \frac{1250}{15000} \times 100\% = 8.3\%$$

Reverse Percentages: $\frac{\text{new}}{\text{original}}$

Learn the most frequently used ones:

1	$\frac{1}{2}$	$\frac{1}{4}$	$\frac{1}{5}$	$\frac{1}{8}$	$\frac{1}{10}$
100%	50%	25%	20%	12.5%	10%

Speed, distance, time

$$\text{Speed} = \frac{\text{distance}}{\text{time}}$$

✚ A car travels 90 miles in 2 hours, 30 minutes. Find its average speed.
90 miles ÷ 2.5 hours = 36 mph

Correlation

Positive correlation

Negative correlation

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CGP Books

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GCSE Mathematics for Edexcel Higher Student Book Karen Morrison,Julia Smith,Pauline McLean,Nick Asker,Rachael Horsman,2015-05-21 A new series of bespoke full coverage resources developed for the 2015 GCSE Mathematics qualifications Endorsed for the Edexcel GCSE Mathematics Higher tier specification for first teaching from 2015 this Student Book provides full coverage of the new GCSE Mathematics qualification With a strong focus on developing problem solving skills reasoning and fluency it helps students understand concepts apply techniques solve problems reason interpret and communicate mathematically Written by experienced teachers it also includes a solid breadth and depth of quality questions set in a variety of contexts GCSE Mathematics Online an enhanced digital resource incorporating progression tracking is also available as well as a free Teacher s Resource Problem solving Books and Homework Books **GCSE Mathematics for OCR Higher Student Book** Karen Morrison,Julia Smith,Pauline McLean,Rachael Horsman,Nick Asker,2015-04-16 A new series of bespoke full coverage resources developed for the 2015 GCSE Mathematics qualifications Endorsed for the OCR J560 GCSE Mathematics Higher tier specification for first teaching from 2015 this Student Book provides full coverage of the new GCSE Mathematics qualification With a strong focus on developing problem solving skills reasoning and fluency it helps students understand concepts apply techniques solve problems reason interpret and communicate mathematically Written by experienced teachers it also includes a solid breadth and depth of quality questions set in a variety of contexts GCSE Mathematics Online an enhanced digital resource incorporating progression tracking is also available as well as Problem solving Books Homework Books and a free Teacher s Resource *Changing Schools: Perspectives on Five Years of Education Reform* Robert Peal,2015-06-01 Changing Schools is a collection of essays by teachers researchers and administrators who have been on the front line of the revolutionary changes taking place in state education over the last five years Their chapters cover topics such as assessment academy chains use of educational research free schools and social media and will be required reading for anyone wanting to understand England s rapidly changing educational landscape Contributors include Andrew Old prominent teacher blogger Tom Bennett founder of ResearchEd Jonathan Simons head of education at the think tank Policy Exchange Katherine Birbalsingh Head of Michaela Community School James O Shaughnessy Managing Director of Floreat Education and former Policy Director for David Cameron Daisy Cristodoulou head of research at ARK Schools Doug Lemov Managing Director of Uncommon Schools and author of Teach Like a Champion

The Slightly Awesome Teacher Dominic Salles,2016-08-15 Most books on teaching ask teachers to be inspirational to operate at 100 miles an hour with creativity oozing out of every pore Dominic Salles says that s unsustainable But you can get brilliant results using some simple practices taken from the myriad of educational research on classroom practices It isn t a guide to all the extra stuff you should do to become cool and awesome It is a book that will get you to forget about teaching and think about learning another way of saying it will help you to stop stressing about what you do and get the students to

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Table of Contents Pixl Maths Past Gcse Papers

1. Understanding the eBook Pixl Maths Past Gcse Papers
    - The Rise of Digital Reading Pixl Maths Past Gcse Papers
    - Advantages of eBooks Over Traditional Books
2. Identifying Pixl Maths Past Gcse Papers
    - Exploring Different Genres
    - Considering Fiction vs. Non-Fiction
    - Determining Your Reading Goals
3. Choosing the Right eBook Platform
    - Popular eBook Platforms
    - Features to Look for in an Pixl Maths Past Gcse Papers
    - User-Friendly Interface

4. Exploring eBook Recommendations from Pixl Maths Past Gcse Papers
    - Personalized Recommendations
    - Pixl Maths Past Gcse Papers User Reviews and Ratings
    - Pixl Maths Past Gcse Papers and Bestseller Lists
5. Accessing Pixl Maths Past Gcse Papers Free and Paid eBooks
    - Pixl Maths Past Gcse Papers Public Domain eBooks
    - Pixl Maths Past Gcse Papers eBook Subscription Services
    - Pixl Maths Past Gcse Papers Budget-Friendly Options
6. Navigating Pixl Maths Past Gcse Papers eBook Formats
    - ePub, PDF, MOBI, and More
    - Pixl Maths Past Gcse Papers Compatibility with Devices
    - Pixl Maths Past Gcse Papers Enhanced eBook Features
7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Pixl Maths Past Gcse Papers
    - Highlighting and Note-Taking Pixl Maths Past Gcse Papers
    - Interactive Elements Pixl Maths Past Gcse Papers
8. Staying Engaged with Pixl Maths Past Gcse Papers
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Pixl Maths Past Gcse Papers
9. Balancing eBooks and Physical Books Pixl Maths Past Gcse Papers
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Pixl Maths Past Gcse Papers
10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
11. Cultivating a Reading Routine Pixl Maths Past Gcse Papers
    - Setting Reading Goals Pixl Maths Past Gcse Papers
    - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Pixl Maths Past Gcse Papers
    - Fact-Checking eBook Content of Pixl Maths Past Gcse Papers
    - Distinguishing Credible Sources
13. Promoting Lifelong Learning
    - Utilizing eBooks for Skill Development
    - Exploring Educational eBooks
14. Embracing eBook Trends
    - Integration of Multimedia Elements
    - Interactive and Gamified eBooks

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