GCSE Mathematics Foundation Tier

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

Here is pretty much all the Foundation Tier content we could fit onto an A3 sheet of paper, including all the formulae you are required to know for GCSE. An ✦ points to an illustrative example. The codes refer to the DfE subject content. Pin this to a wall, keep it on your desk, carry it in your bag, write notes on it (sorry, don't take it into the examination)...

BIDMAS (N3)

...or BIDMAS. Use the correct order of operations: take care when using a calculator:

- Brackets
- Indices (or pOwers)
- Division and Multiplication
- Addition and Subtraction

Types of number (N4)

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 (will continue indefinitely).
✦ 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 (N4)

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 (N4)

Write a number as a product of its prime factors; use indices for repeated factors.
✦ $720 = 5 \times 3^2 \times 2^4$

Powers and roots (N6, N7)

Special indices for any value a:
$a^0 = 1$
$a^{-n} = \frac{1}{a^n}$
✦ $2^{-3} = \frac{1}{2^3} = \frac{1}{8}$

Calculating with fractions (N8)

Adding or subtracting fractions: use a common denominator...
✦ [illegible]
Multiplying fractions: multiply numerators and denominators...
✦ [illegible]
Dividing fractions: "flip" the second fraction, then multiply...
✦ [illegible]

Fractions, decimals (N10)

Fraction is numerator ÷ denominator
✦ $\frac{5}{8} = 5 \div 8 = 0.625$
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:

$\frac{1}{2}$	$\frac{1}{4}$	$\frac{1}{10}$	$\frac{1}{5}$	$\frac{3}{4}$
0.5	0.25	0.1	0.2	0.75

Surds (N8)

Look for the biggest square number factor of the number.
✦ [illegible]

Standard form (N9)

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

Standard units (N13)

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

Rounding (N15)

Truncate the number, then use a "decider digit" to round up or down.
Decimal places: use the decimal point.
✦ [illegible]
Significant figures: use the first non-zero digit.
✦ [illegible]
✦ [illegible]

Error intervals (N15)

Find the range of numbers that will round to a given value.
✦ $x = 5.83$ (2 decimal places): $5.825 \le x < 5.835$
✦ $y = 44$ (2 significant figures): $43.5 \le y < 44.5$
Note use of ≤ and <, and that the last significant figure of each is 5.

Algebraic notation (A1)

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

Equations and identities (A3)

An equation is true for some particular value of x
✦ $2x + 3 = 7$ is true if $x = 2$
...but an identity is true for every value of x
✦ $(x + a)^2 \equiv x^2 + 2ax + a^2$
(note the use of the symbol ≡)

Laws of indices (A4)

For any value a:
$a^x \times a^y = a^{x+y}$
$\frac{a^x}{a^y} = a^{x-y}$
$(a^x)^y = a^{xy}$
✦ [illegible]

Standard graphs (A12)

$y = x^2$ $y = x^3$ $y = \frac{1}{x}$

y = mx + c (A9)

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...
Passes 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 (A4)

$a(b + c) = ab + ac$
✦ $5(x - 2y) = 5x - 10y$
$(x + a)(x + b) = x^2 + ax + bx + ab$
✦ $(2x - 3)(x + 5)$
$= 2x^2 - 3x + 10x - 15$
$= 2x^2 + 7x - 15$
Reverse of expanding is factorising: putting an expression into brackets.

Quadratics (A18)

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 $x - 3 = 0$ or $x - 5 = 0$ so that $x = 3$ or $x = 5$.

Difference of two squares (A4)

$x^2 - a^2 = (x + a)(x - a)$
✦ $x^2 - 25 = (x + 5)(x - 5)$

Simultaneous equations (A19)

✦ Solve $\begin{cases} 2x + 3y = 11 \\ 3x - 5y = 7 \end{cases}$
Multiply to match a term in x or y:
$\begin{cases} 10x + 15y = 55 \\ 9x - 15y = 21 \end{cases}$
Add or subtract to cancel...
$19x = 76$, so $x = 4$
Finally, substitute and solve...
$2 \times 4 + 3y = 11$, so $y = 1$

Rearrange a formula (A5)

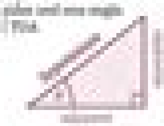
The subject of a formula is the term on its own. Use rules that "balance" the formula to change its subject.
✦ Make x the subject of $2x + 3y = z$
Now, subtract $3y$ from both sides...
$2x = z - 3y$
...then divide both sides by 2
$x = \frac{z - 3y}{2}$

Right-angled triangles (G20, G21)

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



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

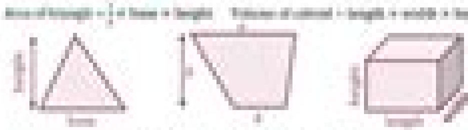
Use "2nd" or "SHIFT" key to find a missing angle.

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

θ°	sin θ°	cos θ°	tan θ°
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 (G16, G17, G18, G23)

Area of triangle = $\frac{1}{2}$ × base × height
Volume of cuboid = length × width × height



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

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

Arc length = $\frac{\theta}{360} \times \pi \times D$
Volume of cylinder = πr^2 × height
Area of sector = $\frac{\theta}{360} \times \pi \times r^2$
Volume of prism = area of cross section × length

Transformations (G7, G24)

Reflection
- Line of reflection

Translation
- Vector

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

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

Angle facts (G3)

Equal angles in parallel lines: always use correct terminology...
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...
Exterior angles always total 360°

Alternate angles Corresponding angles

...so 180° × (n − 2)

Sequences (A24, A25)

Triangular numbers

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

Square numbers ($a^2 = a \times a$)

1^2	2^2	3^2	4^2	5^2
1	4	9	16	25

Cube numbers ($a^3 = a \times a \times a$)

1^3	2^3	3^3	4^3	5^3
1	8	27	64	125

nth term of an arithmetic (linear) sequence is $an + d$
✦ nth term of 5, 8, 11, 14, ... is $3n + 2$ (always increases by 3; first term is $3 \times 1 + 2 = 5$)
Geometric sequence: multiply each term by a constant ratio
✦ 3, 6, 12, 24, ... (ratio is 2)
Fibonacci sequence: make the next term by adding the previous two...
✦ [illegible]

Probability (P3, P4)

$p = \frac{\text{number of ways the outcome can occur}}{\text{total number of possible outcomes}}$

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

Probability rules (P8, P9)

Multiply for independent events
✦ P(3 on dice and H on coin)
$\frac{1}{6} \times \frac{1}{2} = \frac{1}{12}$
Add for mutually exclusive events
✦ P(3 or 4 on dice)
$\frac{1}{6} + \frac{1}{6} = \frac{2}{6}$
Apply these rules to tree diagrams.

Parts of a circle (G9)

Division using ratio (R5)

Use a ratio for unequal sharing
✦ Divide £600 in the ratio 7 : 5
$7 + 5 = 12$, then £600 ÷ 12 = £50
$7 \times £50 = £350$, $5 \times £50 = £250$
(check: £350 + £250 = £600 ✓)

Ratio and fractions (R8)

Link between ratios and fractions
✦ Boys to girls in ratio 2 : 3
$\frac{2}{5}$ are boys, $\frac{3}{5}$ are girls.

Percentages (R9)

y percent of $x = \frac{y}{100} \times x$
✦ Increase £58 by 26%
$\frac{26}{100} \times £58 = £15.08$
£58 + £15.08 = £73.08
y as a percentage of $x = \frac{y}{x} \times 100\%$
✦ The population of a town increases from 3500 to 4620. Find the percentage increase.
$\frac{1120}{3500} \times 100\% = 32\%$
Note: fraction = $\frac{\text{increase}}{\text{original}}$
Learn the most frequently used ones:

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

Speed, distance, time (R11)

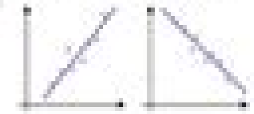
Speed = $\frac{\text{Distance}}{\text{Time}}$
✦ A car travels 90 miles in 1 hour, 30 minutes. Find its average speed.
90 miles ÷ 1.5 hours = 60 mph

Averages (S4)

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

Correlation (S6)

Positive correlation Negative correlation



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