GCSE Mathematics Higher Tier

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

Here is a quick guide of the Higher Tier content you need to know as it stands on paper, including all the formulas you are expected to know for GCSE. An ✚ points to an illustrative example. The notes refer to the AQA exam papers. For this is a quick, deep in on your desk, carry it in your bag, write notes on it (carry), don't take it into the examination...

Laws of indices

For any values a

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

✚ $\left(\frac{2x^3}{3y^2}\right)^4 = \frac{2^4x^{3\times4}}{3^4y^{2\times4}} = \frac{16x^{12}}{81y^8}$

Difference of two squares

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

✚ $x^2 - 25 = (x+5)(x-5)$

Rearrange a formula

The subject of a formula is the term on its own. Rearrange to

✚ Make x the subject of

$$2x = ax + y - 3x$$
$$2x = 3x + y - ax$$
$$x(2-3) = y - ax$$
$$x = \frac{y - ax}{2-3}$$
$$x = \frac{y - ax}{2-a}$$

Functions

Combining functions:

$$fg(x) = f(g(x))$$

✚ If $f(x) = x - 3$ and $g(x) = x^2$

$$fg(x) = x^2 - 3$$
$$gf(x) = (x-3)^2$$

The inverse of f is f^{-1}

✚ If $f(x) = 2x + 3$ then

$$f^{-1}(x) = \frac{x-3}{2}$$

$y = mx + c$

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

✚ Find the equation of the line that passes through $(5, 7)$ in $(2, -1)$

Find its gradient:

$$\frac{7 - (-1)}{5 - 2} = \frac{8}{3} = 2\tfrac{2}{3}$$

...and its y intercept...

Passes through $(5, 7)$, so $c = 2$

Equation is $y = 2x - 3$

Parallel lines gradients are equal; perpendicular lines gradients are "negative reciprocals".

✚ $y = 2x + 3$ and $y = 2x - 5$ are parallel to each other; $y = 2x + 3$ and $y = -\frac{1}{2}x + 3$ are perpendicular

Transformations of curves

Starting with the curve $y = f(x)$

Translation $\begin{pmatrix} a \\ 0 \end{pmatrix}$ for $y = f(x) + a$

Translation $\begin{pmatrix} 0 \\ b \end{pmatrix}$ for $y = f(x + b)$

Reflect in x axis for $y = -f(x)$

Reflect y axis for $y = f(-x)$

Area by a trapezoid

Gradient = acceleration (you may need to draw a tangent to the curve at a point to find the gradient)

Area under curve = distance travelled

Standard graphs

Quadratics

If a quadratic equation cannot be factorised, use the formula

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

✚ Solve $3x^2 - 5x - 7 = 0$

$$x = \frac{-(-5) \pm \sqrt{(-5)^2 - 4\times3\times-7}}{2\times3} = -0.75$$

$$\text{or } x = \frac{-(-5) \pm \sqrt{(-5)^2 - 4\times3\times-7}}{2\times3} = 3.23$$

Complete the square to find the turning points of a quadratic graph.

✚ $y = x^2 - 4x - 3$

$$y = (x - 2)^2 - 4 - 3$$
$$y = (x - 2)^2 - 7$$

Turning point is at $(2, -7)$

Equation of a circle

$x^2 + y^2 = r^2$ is a circle with centre $(0, 0)$ and radius r.

✚ $x^2 + y^2 = 25$ has centre $(0, 0)$ and radius 5

Simultaneous equations

One linear, one quadratic:

✚ Solve $\begin{cases} x - 2y = 10 \\ x^2 + y^2 = 20 \end{cases}$

Rearrange the linear, and substitute into the quadratic:

$$x = 10 + 2y$$
$$\text{so } (10 + 2y)^2 + y^2 = 20$$

Expand and solve the quadratic:

$$100 + 40y + 4y^2 + y^2 = 20$$
$$5y^2 + 40y + 80 = 0$$
$$y = 2 \text{ or } y = -4$$

Finally, substitute into the linear and solve, pairing values...

$$x = 2 + 2 = 4 \text{ so } (x, y) = (4, 2)$$
$$x = 2 + -4 = -2 \text{ so } (x, y) = (-2, -4)$$

Sequences

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

✚ nth term of $5, 8, 11, 14, \ldots$ is $3n + 2$ (always increases by 3 first term is $3 \times 1 + 2 = 5$)

nth term of a quadratic sequence is $an^2 + bn + c$

✚ First three terms of $n^2 + 3n - 1$ are $3, 9, 17, \ldots$

Geometric sequence: multiply each term by a common ratio

✚ $2, 6, 18, 54, \ldots$ (ratio is 3)

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

✚ $1, 1, 2, 3, 5, 8, 13, 21, 34, 55, \ldots$

Right angled triangles

Pythagoras Theorem:
Lengths of three sides.
Right angles.
$a^2 + b^2 = c^2$

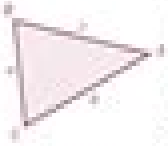
Trigonometry:
Lengths two sides and one angle.
SOH CAH TOA

$$\sin\theta = \frac{OPP}{HYP} \quad \cos\theta = \frac{ADJ}{HYP} \quad \tan\theta = \frac{OPP}{ADJ}$$

Use "Shift" or "SHIFT" key to find a missing angle

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

Advanced trigonometry



A is opposite a
B is opposite b
C is opposite c

Sine Rule

Use if you are given an angle with your

Missing side: $\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$

Missing angle: $\frac{\sin A}{a} = \frac{\sin B}{b} = \frac{\sin C}{c}$

Cosine Rule

Use if you can't use the sine rule

Missing side: $a^2 = b^2 + c^2 - 2bc\cos A$

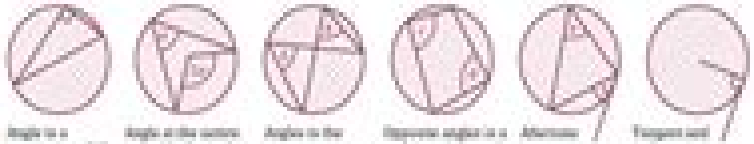
Missing angle: $\cos A = \frac{b^2 + c^2 - a^2}{2bc}$

Special values of sin, cos, tan

Learn (or be able to find without a calculator)...

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

Circle theorems



Angle in a semicircle is 90°

Angle at the centre is double the angle at the circumference

Angles in the same segment are equal

Opposite angles in a cyclic quadrilateral total 180°

Alternate segment theorem

Tangent and radius are perpendicular

Area and volume

Circumference of circle $= \pi \times D$

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

Area of triangle $= \frac{1}{2}ab\sin C$

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

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

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

Volume of prism = area of cross section × length

Volume of cone $= \frac{1}{3}\pi r^2 h$

Volume of frustum is difference between the volumes of two cones

Transformations

Reflection
- Line of reflection

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

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

Translation
- Vector

Similar shapes

Ratios in similar shapes and solids:

Length/perimeter	1 : n	n : 1
Area	$1 : n^2$	$n^2 : 1$
Volume	$1 : n^3$	$n^3 : 1$

Percentages: multipliers

Percentage increase or decrease, use a multiplier (powers for repeating).

✚ Initially there were 20 mice kept in a cage. The number decreases by 15% each year. Estimate the number of mice after 6 years.

$$20 \times 0.85^6 = 7.846 \approx 8$$

Formula for compound interest

$$\text{Total amount} = P\left(1 + \frac{r}{100}\right)^n$$

✚ I invest £400 at 3% compound interest. What is my amount worth after 5 years?

$$£400 \times \left(1 + \frac{3}{100}\right)^5 = £463.74$$

Direct & inverse proportion

y is directly proportional to x:
$y = kx$ (for a constant k)

✚ A is directly proportional to r^2
$A = k \times \text{when } r = 10$ Find k $10 = k \times 10$
$k = 0.1^2$ $A = 0.1 \text{ and } r = 10$ So if r
$10 = k \times r^2$ so $k = 1/0.1 = 0.1r^2$
$A = 0.1 \times 6^2 = 3.6$

y is inversely proportional to x

$yx = k$ or $y = \frac{k}{x}$ for a constant k

Probability rules

Multiply for independent events

✚ Flip an fair coin & an coin

$$\frac{1}{6} \times \frac{1}{2} = \frac{1}{12}$$

Add for mutually exclusive events

✚ P(3) or 4 on dice)

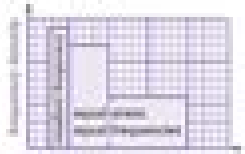
$$\frac{1}{6} + \frac{1}{6} = \frac{1}{3}$$

Apply these rules to tree diagrams.

In general...
$P(A \text{ or } B) = P(A) + P(B) - P(A \text{ and } B)$
$P(A \text{ and } B) = P(A \text{ given } B) \times P(B)$

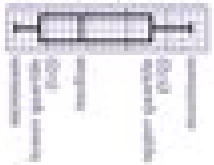
Histograms

Frequency = frequency density multiplied by class width. This means that bars with the same frequency have the same area.



Box plots

Interquartile range (IQR) = UQ − LQ



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