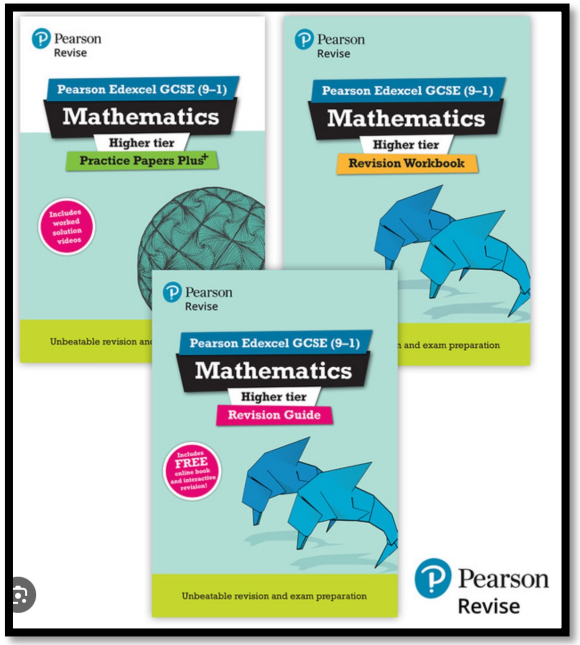
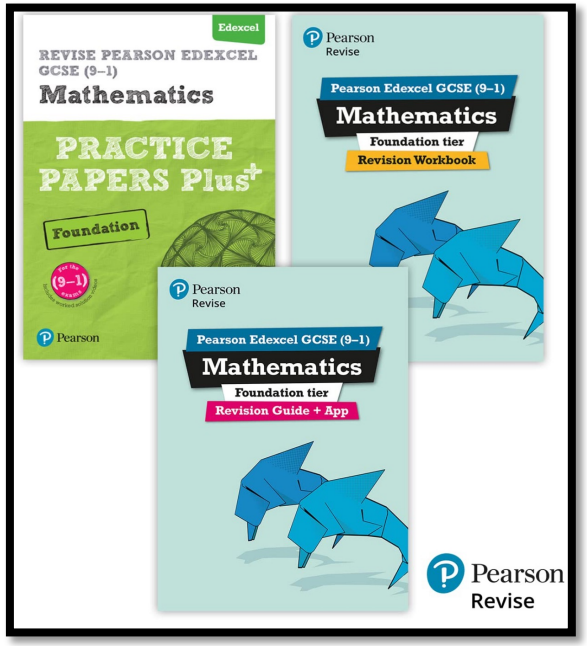


Maths

Stockland Green School
Aspire Believe Achieve

How Should you revise Maths during the Christmas Holiday?

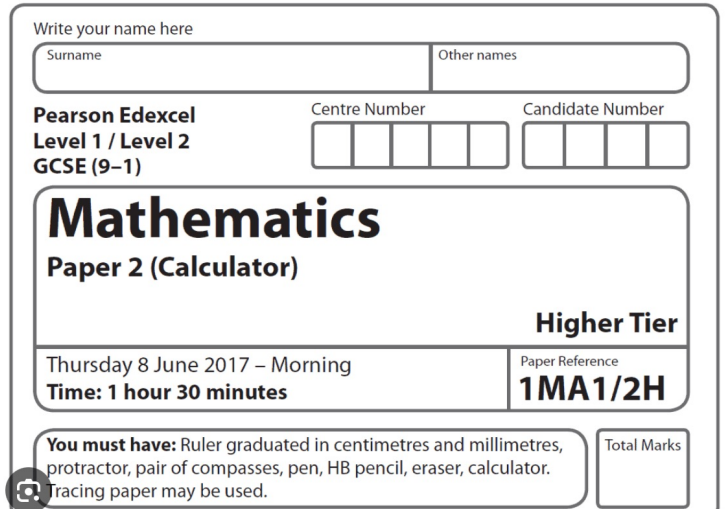
edexcel



Mathematics Assessment Feedback

Paper	Mock Paper 1H

Questions	Topic	Score	Sparx Code
1	Sharing amounts in a given ratio	2 / 2	U577
2	Constructing and solving equations	0 / 4	U599
3	Finding the volume and surface area of cubes and cuboids	2 / 4	U786,U929
4a	Estimating calculations, Calculating with speed	1 / 3	U225,U151
4b	Estimating calculations	1 / 1	U225
5	Finding fractions of amounts without a calculator	2 / 4	U881
6a	Tree diagrams for independent events	0 / 2	U558
6b	Tree diagrams for independent events	0 / 2	U558
7	Graphs of cubic functions	1 / 1	U980
8	Finding the area of circles	0 / 3	U950
9a	Solving inequalities with the variable on both sides	0 / 3	U738
9b	Factorising to solve quadratic equations of the form x^2+bx+c	0 / 2	U228
10a	Drawing box plots	3 / 3	U879
10b	Comparing populations using box plots and cumulative frequency graphs	0 / 2	U507
11a	Finding unknown sides in similar shapes	0 / 2	U578
11b	Finding unknown sides in similar shapes, Sharing amounts in a given ratio	0 / 2	U578,U577
12	Enlargement by a positive or negative scale factor	0 / 2	U134
13	Finding the surface area and volume of similar shapes	2 / 4	U110
14	Constructing inverse proportion equations	2 / 3	U138
15	Combining ratios	2 / 3	U921
16	Constructing and solving quadratic equations	0 / 5	U150
17	Using Pythagoras' theorem in 2D, Constructing and solving simultaneous equations	0 / 3	U385,U137
18a	Simplifying surds, Multiplying and dividing surds	1 / 1	U338,U633
18b	Expanding brackets with surds	1 / 2	U499
18c	Rationalising denominators containing two terms	0 / 2	U281
19	Tree diagrams for independent events	0 / 2	U558
20	Finding inverse functions	0 / 5	U996
21	Graphs of exponential functions	0 / 4	U229
22	Angles in segments and cyclic quadrilaterals	0 / 4	U251
	Total	20 / 80	



Write your name here

Surname | Other names

Pearson Edexcel
Level 1 / Level 2
GCSE (9–1)

Centre Number | Candidate Number

Mathematics

Paper 2 (Calculator)

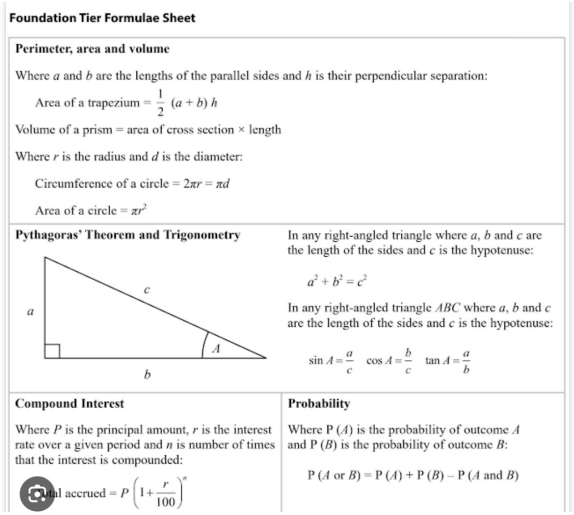
Higher Tier

Thursday 8 June 2017 – Morning
Time: 1 hour 30 minutes

Paper Reference
1MA1/2H

You must have: Ruler graduated in centimetres and millimetres, protractor, pair of compasses, pen, HB pencil, eraser, calculator. Tracing paper may be used.

Total Marks



Foundation Tier Formulae Sheet

Perimeter, area and volume

Where a and b are the lengths of the parallel sides and h is their perpendicular separation:

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

Volume of a prism = area of cross section × length

Where r is the radius and d is the diameter:

Circumference of a circle $= 2\pi r = \pi d$

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

Pythagoras' Theorem and Trigonometry

In any right-angled triangle where a, b and c are the length of the sides and c is the hypotenuse:

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

In any right-angled triangle ABC where a, b and c are the length of the sides and c is the hypotenuse:

$\sin A = \frac{a}{c}$ $\cos A = \frac{b}{c}$ $\tan A = \frac{a}{b}$

Compound Interest

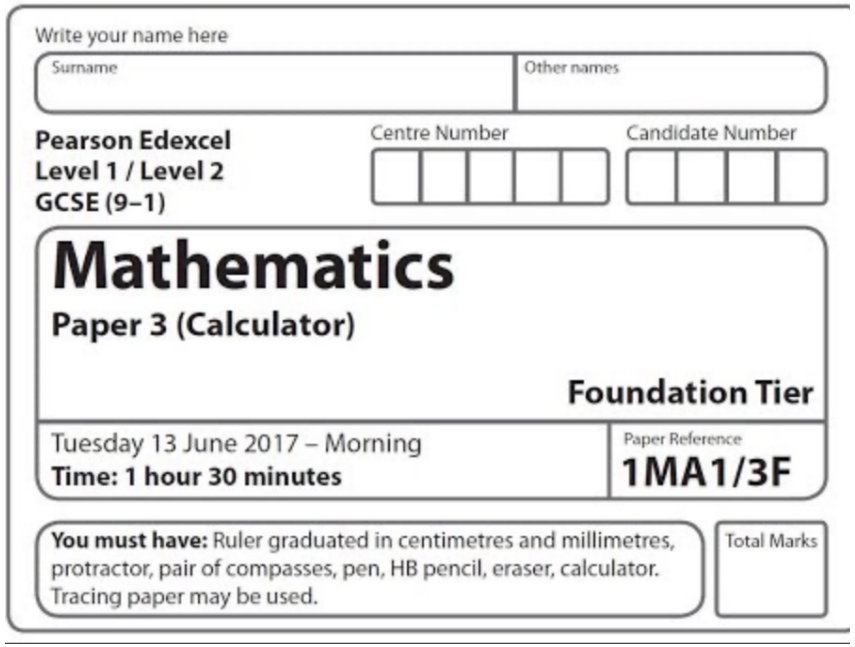
Where P is the principal amount, r is the interest rate over a given period and n is number of times that the interest is compounded:

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

Probability

Where P (A) is the probability of outcome A and P (B) is the probability of outcome B:

P (A or B) = P (A) + P (B) – P (A and B)



Write your name here

Surname | Other names

Pearson Edexcel
Level 1 / Level 2
GCSE (9–1)

Centre Number | Candidate Number

Mathematics

Paper 3 (Calculator)

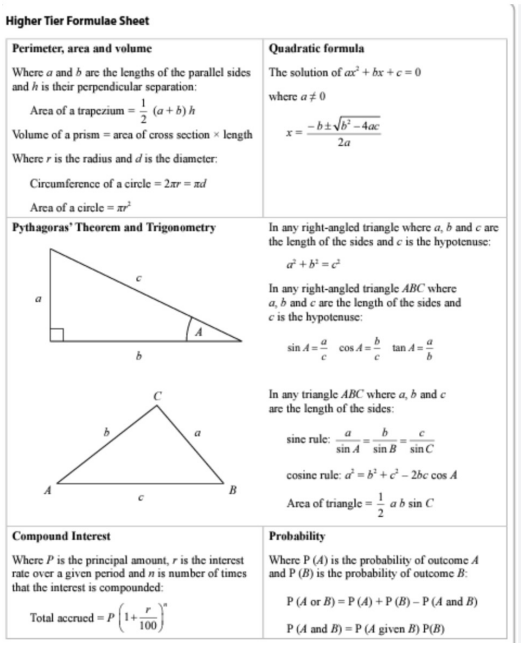
Foundation Tier

Tuesday 13 June 2017 – Morning
Time: 1 hour 30 minutes

Paper Reference
1MA1/3F

You must have: Ruler graduated in centimetres and millimetres, protractor, pair of compasses, pen, HB pencil, eraser, calculator. Tracing paper may be used.

Total Marks



Higher Tier Formulae Sheet

Perimeter, area and volume

Where a and b are the lengths of the parallel sides and h is their perpendicular separation:

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

Volume of a prism = area of cross section × length

Where r is the radius and d is the diameter:

Circumference of a circle $= 2\pi r = \pi d$

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

Quadratic formula

The solution of $ax^2 + bx + c = 0$

where $a \neq 0$

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

Pythagoras' Theorem and Trigonometry

In any right-angled triangle where a, b and c are the length of the sides and c is the hypotenuse:

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

In any right-angled triangle ABC where a, b and c are the length of the sides and c is the hypotenuse:

$\sin A = \frac{a}{c}$ $\cos A = \frac{b}{c}$ $\tan A = \frac{a}{b}$

In any triangle ABC where a, b and c are the length of the sides:

sine rule: $\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$

cosine rule: $a^2 = b^2 + c^2 - 2bc\cos A$

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

Compound Interest

Where P is the principal amount, r is the interest rate over a given period and n is number of times that the interest is compounded:

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

Probability

Where P (A) is the probability of outcome A and P (B) is the probability of outcome B:

P (A or B) = P (A) + P (B) – P (A and B)

P (A and B) = P (A given B) P(B)

Past Papers and Showbie

Showbie

Suggested Revision Time Table

Week Commencing	Monday	Wednesday	Friday	Sat Revision
25/12/2023	**Christmas**	**Numbers**	**Numbers**	**Half paper1**
Revision	Rest	Laws of indices/Paper1	Rounding and Estimating	45 minutes in exam condition
Confidence	R A G	R A G	R A G	R A G
01/01/2024	**New Years Day**	**Algebra**	**Algebra**	**Half Paper2**
Revision	Rest	Expanding and Factorising Quadratics/Paper2	Linear Simultaneous Equations	45 minutes in exam condition
Confidence	R A G	R A G	R A G	R A G
08/01/2024	**Algebra**			
Revision	Graphical Inequalities/Paper3			
Confidence	R A G	R A G		