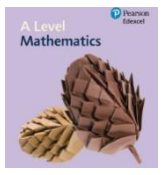
GCSE Higher B Maths Learning Journey

South Lincolnshire Academies Trust

A good Mathematics GCSE at grade 5 to 7 will support your application for college and sixth form courses, apprenticeship and job opportunities. Courses in Business and Finance, and Phycology.

YEAR 12/13

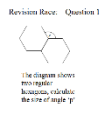


Written Exam

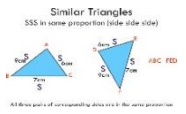
Pure Maths

$$\frac{dy}{dx} = f(x)$$
$$\frac{dy}{dx} = f(x, y)$$
$$x_1 \frac{\partial y}{\partial x_1} + x_2 \frac{\partial y}{\partial x_2} = y$$

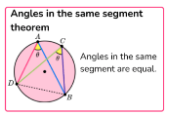
Written Exam 3 Papers



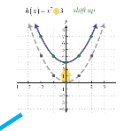
Exam Questions and Techniques



Congruence and Similarity

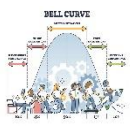


Circle Theorems

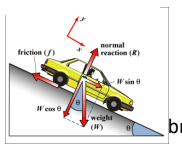


Transforming Functions

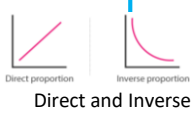
Statistics



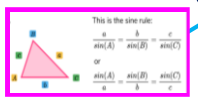
Mechanics



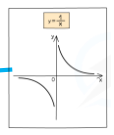
Revision



Direct and Inverse Proportion

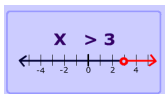


Sine and Cosine Rule

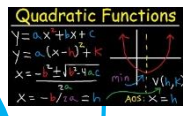


Further Graph Sketching

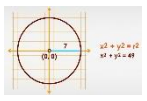
Inequalities



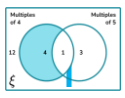
Algebra; Quadratics and Rearranging Formulae and Identities



Geometry and Measures Recap and Review

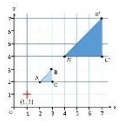


Equation of a Circle



Probability

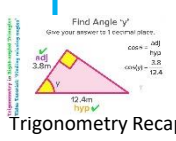
Transformations



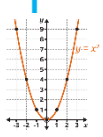
YEAR 11

Further Equations and their Graphs

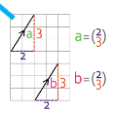
$3x + 2y = 12$



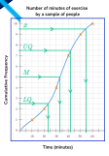
Trigonometry Recap



Linear and Quadratic Equations and their Graphs

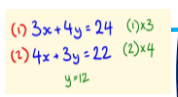


Vectors

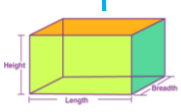


Statistics Recap and Review

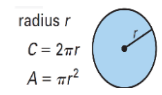
Simultaneous Equations



Statistical Measures

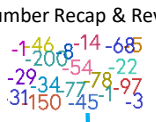


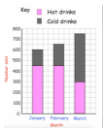
Volume



Circumference & Area

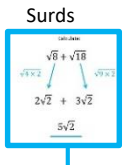
Number Recap & Review



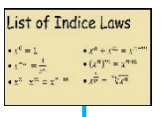


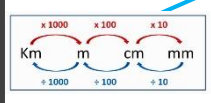
Collecting and Representing Data

Surds



Indices

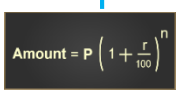




Measures

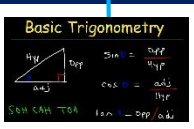
Introduction to Quadratics and Rearranging Formulae

$x^2 + 3x - 4$

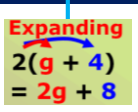


Growth & Decay

Perimeter & Area



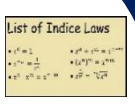
Pythagoras & Trigonometry



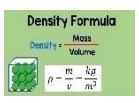
Algebra Recap & Review

Calculating with Percentages

Sequences



Indices



Measures

Equations

$2x - 3 = -7$

Scatter graphs

Introduction to Perimeter and Area

Real life Graphs

Constructions and Loci

73% of 680

Basic Percentages

Co-ordinates & Linear Graphs

Basic Decimals

Properties of Polygons

$\frac{5}{3} \div \frac{2}{9}$

$\frac{5}{3} \div \frac{2}{9} = \frac{5}{3} \times \frac{9}{2} = \frac{45}{6} = \frac{15}{2}$

Basic Fractions

Rounding

Introduction to Area & Circumference

Collecting and Representing Data

Scale drawings & Bearings

20 : 32

÷4 ÷4

5 : 8

Ratio and Proportion

Basic Algebra Review

6x+2 = 2(3x+1)

Number Recap

Standard Form

Bearings

ability

Formulae

Basic Number

Angles

Algebra Recap

6x+2 = 2(3x+1)

Sequences

1 3 6 10 ...

Graphs

Transformations

Proportional Reasoning

FDP

$\frac{1}{2} = 0.5$

$0.5 = 50\%$

Properties of Shape

Percentages

30% of 160 = 3/10 × 160

= 160 ÷ 10 × 3

= 48

Calculating Space

Measuring Data

Circles

Data

Estimation

Arithmetic with Fractions

Sequences

Estimation

Algebraic Manipulation

2x+4-x-3 = x+1

Negatives

-3 X -5 = 15

Angles

x + 3 = 8

x + 3 - 3 = 8 - 3

Equations

Transformations

Angles

Calculating

Algebra

Constructions

The Number System

Ratio

Equations

mean 5
average

median 6
middle

Measuring Data

Fraction Decimal Percentages

Data

Negative Numbers

Transformations

Angles

Year 6 SATs

Y6 SATS