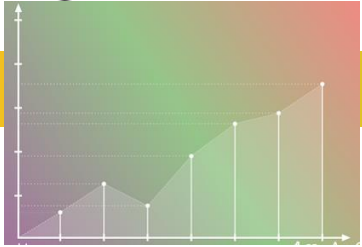




KEY STAGE 3 MATHEMATICS CURRICULUM



**YEAR
7**

AUTUMN TERM 1

Sequences

Understanding & using algebraic notation

Equality & Equivalence



AUTUMN TERM 2

Place value and ordering integers & decimals

Fraction, decimal & percentage equivalence

SPRING TERM 1

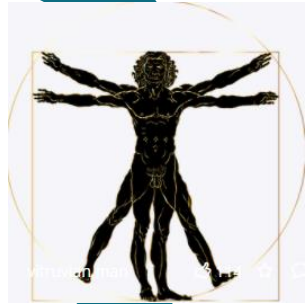
Solving problems with addition, subtraction, multiplication & division

Fractions and percentages of amounts

SPRING TERM 2

Operations and equations with directed numbers

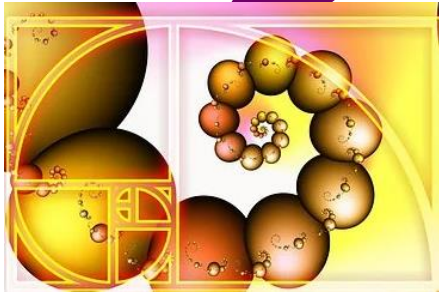
Addition and subtraction of fractions



SUMMER TERM 1

Constructing, measuring & using geometric notation

Developing geometric reasoning

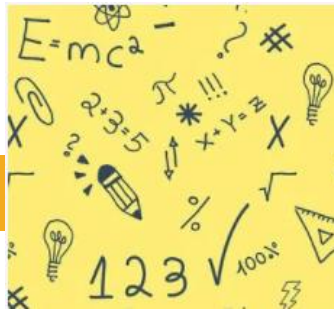
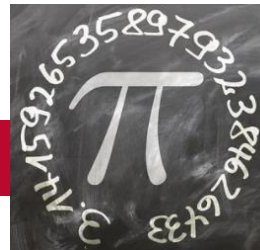


SUMMER TERM 2

Developing number sense

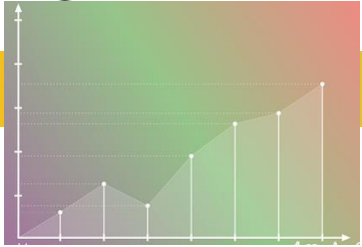
Sets and probability

Prime numbers and proof





KEY STAGE 3 MATHEMATICS CURRICULUM



**YEAR
8**

AUTUMN TERM 1

*Ratio & scale
Multiplicative change
Multiplying & dividing
fractions*



AUTUMN TERM 2

*'Working in the cartesian plane
Representing data
Tables & probability*

SPRING TERM 1

*Brackets, equations &
inequalities
Sequences indices*

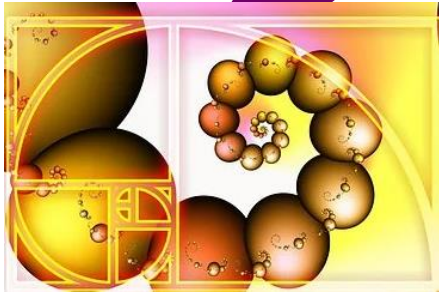
SPRING TERM 2

*Fractions & percentage
Standard index form
Number sense*



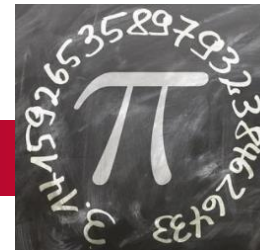
SUMMER TERM 1

*Angles in parallel lines and
polygons
Area of trapezia & circles
Line symmetry & reflection*



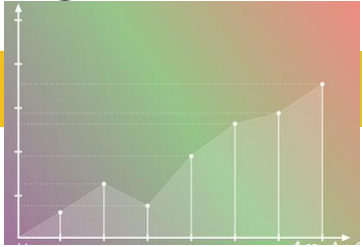
SUMMER TERM 2

*The data handling cycle
Measures of location'*





Key stage 4 Mathematics Curriculum



**YEAR
9F**

AUTUMN TERM 1

*Primes, factors & multiples
Algebraic manipulation
Accuracy & rounding*



AUTUMN TERM 2

*Mensuration
Proofs & formulae
Sequences*

SPRING TERM 1

*Geometric constructions
& calculations
Direct & inverse
proportion*

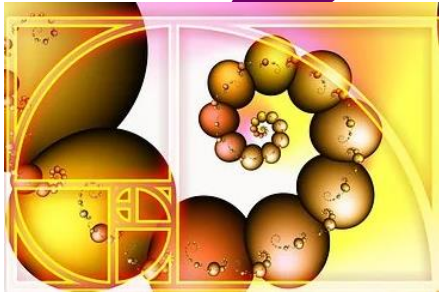
SPRING TERM 2

*Percentage change
Solving of equations*



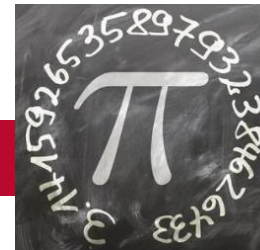
SUMMER TERM 1

*Fractions & decimals
Indices & standard form
Exact calculations*



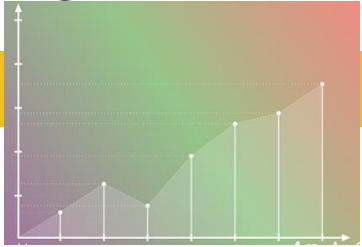
SUMMER TERM 2

*Equations & inequalities
Compound units*





Key stage 4 Mathematics Curriculum



**YEAR
9H**

AUTUMN TERM 1

Primes, factors & multiples
Algebraic manipulation
Accuracy & bounds



AUTUMN TERM 2

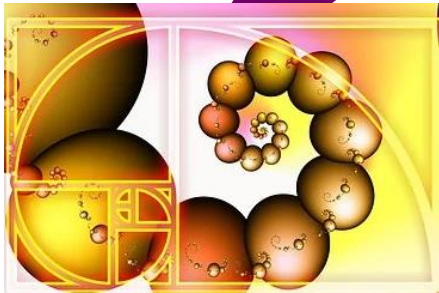
Pythagoras Theorem & Trigonometry;
Circles, spheres & pyramids;
Proofs & formulae
Construction & loci.

SPRING TERM 1

Geometric proofs
Direct & inverse proportion
Percentage change

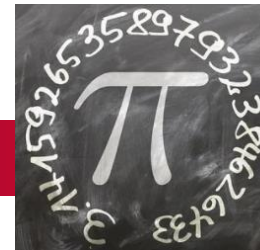
SPRING TERM 2

Graphical solutions of equations
Algebraic solutions of equations



SUMMER TERM 1

Fractions & decimals
Standard form and indices
Surds



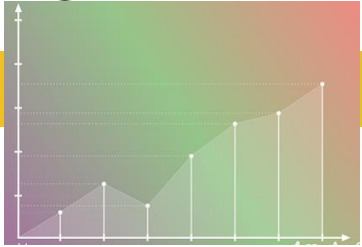
SUMMER TERM 2

Exact calculations
Trigonometry 2D & 3D representations
Sequences





**Key stage 4
Mathematics Curriculum**



**YEAR
10F**

AUTUMN TERM 1
2D & 3D representations
Geometric review
Vectors



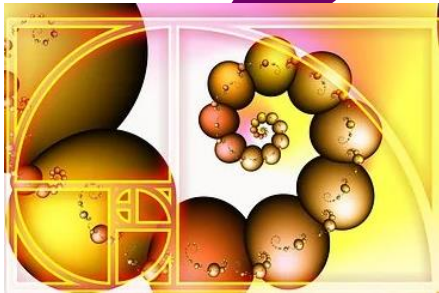
AUTUMN TERM 2
'Probability
Bivariate data
Scatter diagrams

SPRING TERM 1
*Collecting, organising,
presenting and analysing
data*

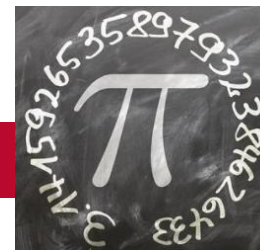
SPRING TERM 2
Time series
Index numbers



SUMMER TERM 1
Graphs
Transformations

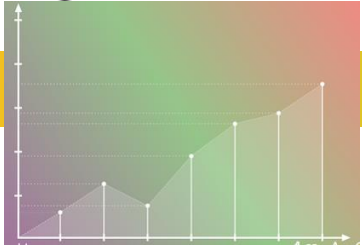


SUMMER TERM 2
Straight lines review
Non-linear graphs
Transformations





**Key stage 4
Mathematics Curriculum**



**YEAR
10H**

AUTUMN TERM 1

*Straight line graphs
Real-world graphs*

*Similar figures
Compound units*



AUTUMN TERM 2

*Probability
Probability distributions*

SPRING TERM 1

*Data collection and
sampling*

*Organising, presenting
and analysing data*

SPRING TERM 2

*Processing and
representing data*

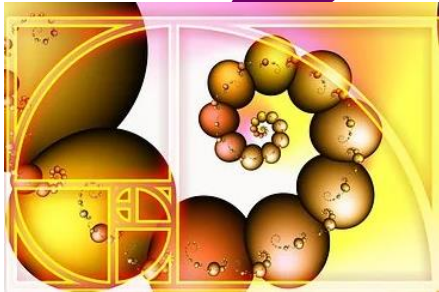
Summarising data



SUMMER TERM 1

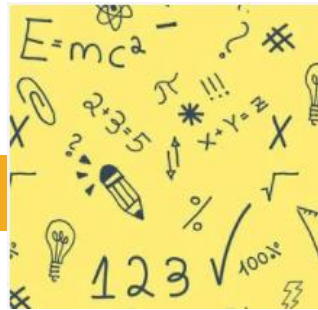
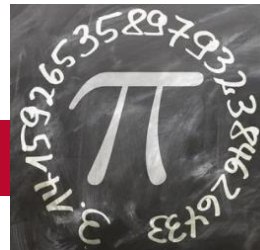
*Year 10 PPE1 w/c 18/04/22
& 25/04/22*

*Bivariate data
Time series
Index numbers*



SUMMER TERM 2

*Non-linear graphs
Transformations
STATISTICS EXAMS (dates
tbc)'*





**YEAR
11F**

AUTUMN TERM 1

PPE 1 Revision



AUTUMN TERM 2

*Year 11 PPE 1 w/c
01/11/21 & 08/11/21*

*Targeted teaching based
on QLA from PPE 1*

SPRING TERM 1

Targeted revision

SPRING TERM 2

Targeted revision Year 11

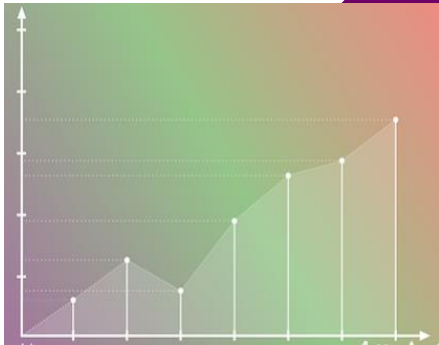
*PPE 2 w/c 21/02/2022 &
28/02/2022*



SUMMER TERM 1

Revision

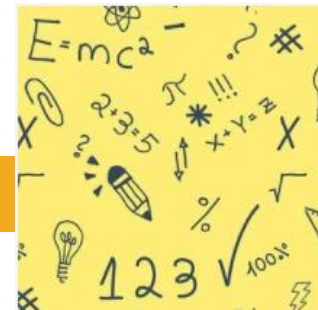
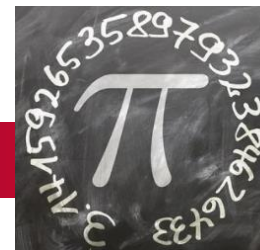
*OCR Paper 1 – 20th May
2022*



SUMMER TERM 2

*OCR Paper 2 – 7th June
2022*

*OCR paper 3 – 13th June
2022*





**YEAR
11H**

AUTUMN TERM 1

Bespoke topics for each group based on weaknesses identified in QLAs following assessments including Year 10 PPEs Assessment & QLA Year 11 PPE 1; Revision



AUTUMN TERM 2

*Year 11 PPE 1 – w/c
01/11/22 & 08/11/22*

Bespoke topics for each group based on weaknesses identified in PPE1 QLA

SPRING TERM 1

Targeted revision based on PPE QLA

SPRING TERM 2

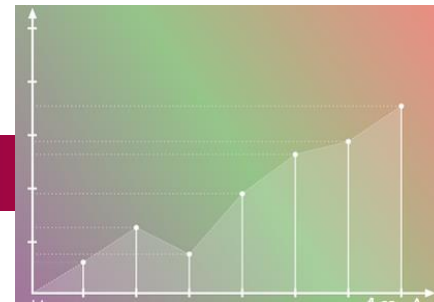
*Targeted revision Year 11
PPE 2 – w/c 21/02/2022 &
28/02/2022*



π

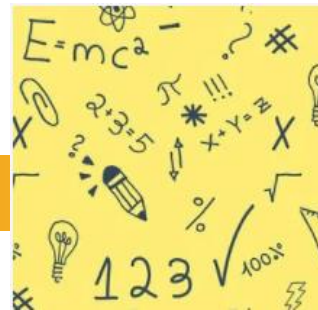
SUMMER TERM 1

*Targeted revision
Exam practice OCR Paper
4 – 20th May 2022*



SUMMER TERM 2

*OCR Paper 5 – 7th June
2022
OCR paper 6 – 13th June
2022*





YEAR 12 Mathematics Curriculum

Year
12

Autumn Term 1

Algebra 1
Year 12 course suitability
assessment
Vectors



Autumn Term 2

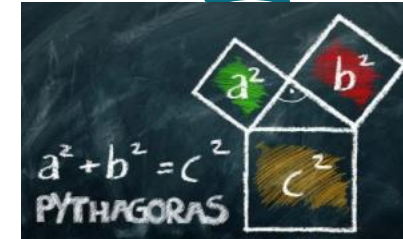
Polynomials &
binomial theorem
Units & kinematics
PPE 1 revision

Spring Term 1

Trigonometry
Forces & Newton's laws
Year 12 PPE 1 wb 07/02/22

Spring Term 2

Differentiation &
Integration
Collecting, representing &
interpreting data



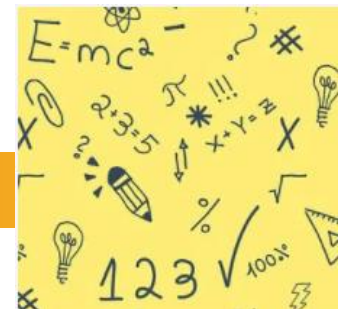
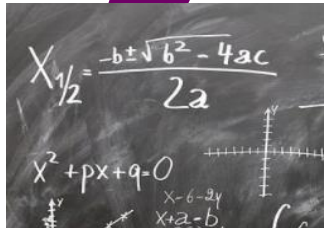
Summer Term 1

Exponential & logarithms
Probability & discrete random
variables
PPE 2 revision

Summer Term 2

Year 12 PPE2 – w/c
20/06/22

Hypothesis testing 1



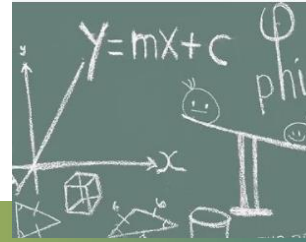


Year 12 Further Maths MATHEMATICS CURRICULUM

YEAR 12 FM

AUTUMN TERM 1

Matrices
Linear transformation
Complex numbers
Argand diagrams
Momentum and impulse
Discrete random variable

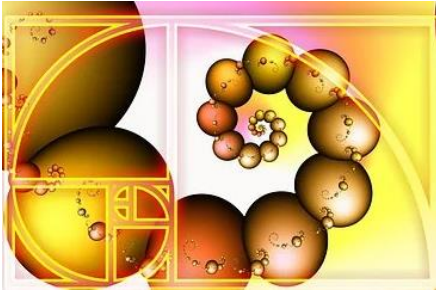


AUTUMN TERM 2

Series
Roots of polynomials
Volume of revolutions
Binomial and poisson distributions
Work energy and power

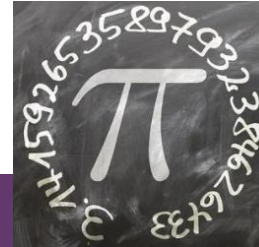
SPRING TERM 1

Year 12 PPE 1 w/c 07/02/22
Roots of polynomial
Vectors
Proof by induction
Elastics and springs
Elastic collision in 1-dimension
Elastic collision in 2-Dimension (introduction)



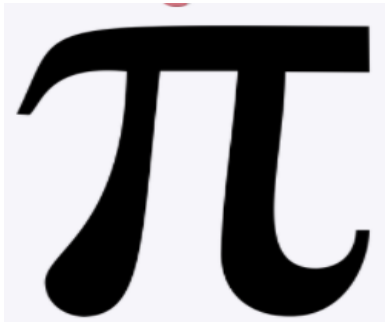
SPRING TERM 2

Elastic collision in 2D
Geometric and negative binomial distribution
Normal distribution and central limit theorem
Probability generating function
Chi square test
Hypothesis testing; Quality of test



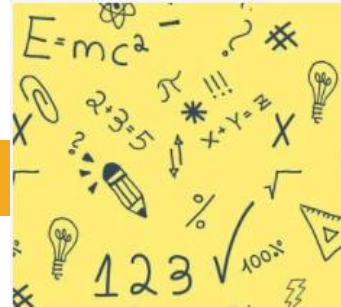
SUMMER TERM 1

Volume of revolution
Revision
Exam preparation



SUMMER TERM 2

Year 12 PPE2 – w/c
20/06/22





Year 13
MATHEMATICS CURRICULUM

AUTUMN TERM 1

Differentiation 2;
Two-dimensional motion with constant acceleration;
Two-dimensional motion with variable acceleration;
Motion under gravity 2;
Motion under forces;

AUTUMN TERM 2

Integration and differential equations;
Year 13 PPE – w/c 08/11/22;
Trigonometric identities;
Numerical methods;
The binomial series;
Proof -further Functions;
Partial fractions;
Radians

YEAR 13

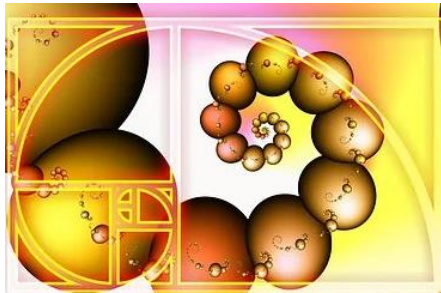
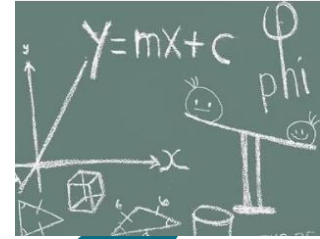
Sequence -arithmetic and geometric sequence;
Algebraic fractions

SPRING TERM 1

Reciprocal and inverse trigonometric functions;
Compound angles;
Equivalent form of trigonometric addition/subtraction;
Statistics Year 13 PPE 1 w/c 07/02/22

SPRING TERM 2

Vectors in 3D
Statistics
Dynamics 2
Moments
Revision



SUMMER TERM 1

Revision

SUMMER TERM 2

Revision

