

Year Group: 7 Yearly Learning Journey Book 1

1. Number

- Rounding/estimating
- Working with negative number
- Multiples, factors, primes
- BIDMAS
- Powers and roots



2. Fractions

- Simplifying
- Mixed/improper
- Adding/subtracting
- Multiplying/Dividing



3. Percentages

- Converting F/D/P
- Comparing proportions
- Percentages of amounts

Assessment Window 1

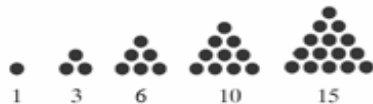


Assessment Window 2



6. Co-ordinates

- Plotting and reading
- Recognising/naming horizontal and vertical line



5. Sequences

- Finding the rule
- Finding the terms
- Shape sequences
- Position to term rule

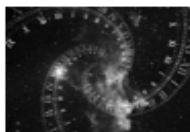
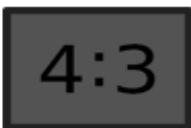


4. Algebra

- Introduction
- Collecting terms
- Expanding brackets
- Substitution
- Solving 1 step equations

7. Ratio and Proportion

- Simplifying ratios
- Ratios and fractions
- Dividing into a ratio



8. Time/Money

Telling time on 12 and 24 hour clocks and using units of time.

Solving money problems



9. Units and scale

- Reading scales
- Measuring
- Converting length
- Converting mass
- Converting volume

Assessment Window 3



Year Group: 7 Yearly Learning Journey Book 2



1. Number

Basic arithmetic and approximations leading onto powers and standard form



2. Fractions and Percentages

Using all four operations on fractions.

Finding Percentages, increase and decrease amounts by percentage



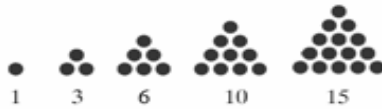
3. Algebra

Manipulating expressions, forming equations and solving equations.

Assessment Window 1



Assessment Window 2

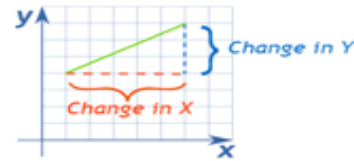


6. Sequences

Finding the term to term rule of sequences leading to finding the nth term.

5. Graphs

Plotting co-ordinates leading to drawing and interpreting straight line graphs



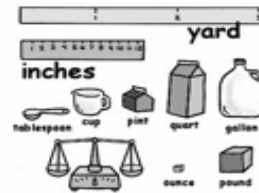
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4. Ratio and Proportion

Comparing quantities using fractions and ratio, along with dividing into a given ratio.

7. Units

Converting units of length, mass and volume



8. Compound Measures

Calculating speed and using the formula



9. Scale

Looking at scales with/without units and scale drawings.

Assessment Window 3



Year Group: 7

Learning Journey

Foundation



- 1. Number**
- Arithmetic
 - Approximations
 - Multiples & Factors
 - Powers & roots
 - Fractions.



- 2. Algebraic Expressions**
- Simplifying expressions
 - Expanding
 - Factorising



- 3. Equations & inequalities**
- Solving linear equations.
 - Representing inequalities on a number line.
 - Solving inequalities

Assessment Window 1



Assessment Window 2



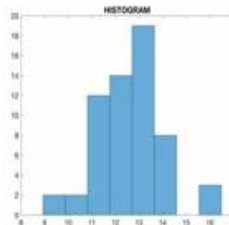
7. Percentages

- Percentage of an amount
- Percentage increase/decrease
- Reverse percentages
- Compound growth



6. Analysing data

- Pictograms
- Two way tables
- Bar charts
- Stem & Leaf
- Pie Charts
- Scatter plots



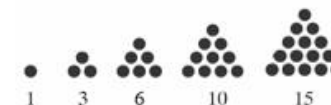
5. Formulae and functions

- Writing formulae
- Substitution
- Rearranging equations

$$E=mc^2$$

4. Sequences

- Term to term rules
- nth term



8. Angles & 2D shapes

- Basic angle rules
- Angles in triangles
- Angles in quadrilaterals
- Angles around parallel lines



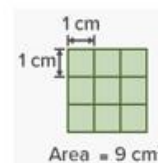
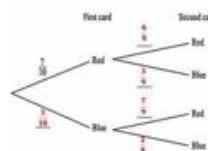
9. Graphs & Equations

- Plotting graphs
- Intercept/gradient



10. Probability

- Calculating probabilities
- Probability diagrams



11. Area & Perimeter

- Area
- Perimeter
- Circles
- Compound shapes

Assessment Window 3



Year Group: 8 Yearly

Learning Journey Book 1



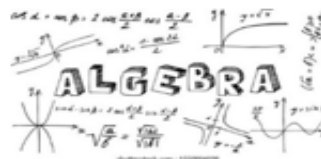
1. Number

- Basic number skills
- Estimating/Rounding
- BIDMAS
- Square/roots
- LCM/HCF



2. Fractions and percentages

- Calculations with fractions
- F/D/P conversions
- Percentage of amounts



3. Algebra

- Collecting terms
- Expanding brackets
- Factorising
- Solving 1 and 2 step equations

Assessment Window 1



7. Transformations

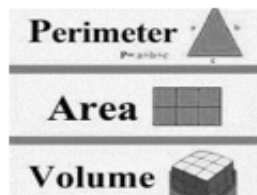
- Reflection
- Rotation
- Translation
- Enlargement.

Assessment Window 2



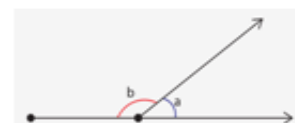
6. Perimeter Area Volume

- Perimeter of shapes
- Area of triangles/rectangles
- Volume of cuboids



5. Angles

- Basic angles rules
- In triangle
- In Quadrilaterals
- Problem solving

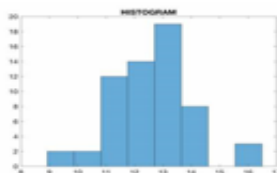


4. Shape

- Symmetry
- Rotational symmetry
- 2D shapes
- 3D shapes

8. Probability

- Probability scale
- Calculating
- Experimental
- Listing outcomes



9. Statistics

- Bar charts/dual
- Pictograms
- Pie charts
- Correlation
- Averages



10. Constructions

- Measuring/drawing lines and angles
- Constructing triangles

Assessment Window 3



Year Group: 8 Learning Journey Book 2

1. Number



Introduction to Arithmetic and approximations leading onto powers.



2. Fractions and percentages

Using four operations on fractions.

Finding percentages, percentage increase and decrease



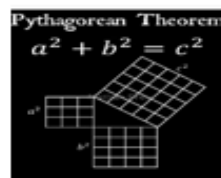
3. Algebra

Assessment Window 1

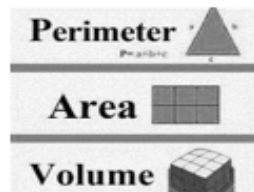
Manipulating expressions, forming equations and solving equations.



Assessment Window 2

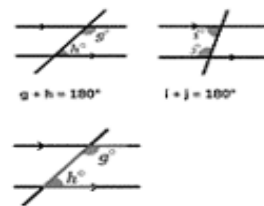


6. Pythagoras
Finding missing lengths using Pythagoras theorem.



5. Perimeter Area Volume

Properties of 2D & 3D shapes. Perimeter, Area and Volume. Circumference and Area of circles. Volume of cylinders.

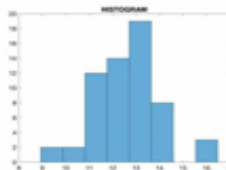


4. Angles

Angles on a line and around a point, angles in triangles, quadrilaterals and polygons, angles in parallel lines.

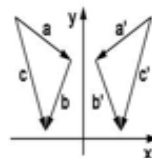
7. Statistics and Probability

Probability scale, sample spaces, experimental probability, Venn diagrams. Averages, graphs and charts



8. Transformations

Reflection, rotation, translation and enlargement.



9. Constructions

Perpendicular bisectors, Angle bisectors
Constructing Triangles

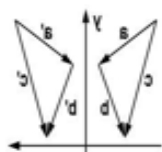


Assessment Window 3



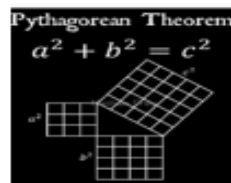
Year Group: 8 Learning Journey Foundation

1. Transformations



How shapes can be changed

- Reflections
- Rotations
- Translations
- Enlargements



2. Pythagoras and Trigonometry

Finding missing sides and angles in triangles

Assessment Window 1



3. Circles



Use key circle formulae to solve problems involving circles



6. Algebra

Review of Solving Equations leading onto solving Simultaneous Equations

Assessment Window 2



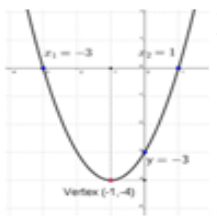
5. Compound measures

- Speed, distance and time
- Pressure, force, area
- Density, mass, volume



4. Ratio and Proportion

Solving problems

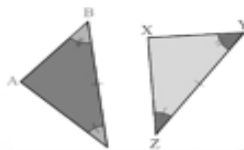


7. Types of Graphs

- Straight line
- Quadratic
- Cubic
- Reciprocal

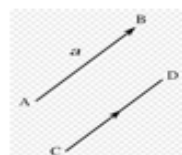
8. Similarity and Congruence

Similar shapes and congruent triangles



9. Vectors

- Writing, drawing
- Vector Geometry
- Problem solving



10. Constructions, Bearing and Loci

Drawing constructions using the protractor and Compass



Assessment Window 3

