



At St Peter's we believe that a broad and balanced curriculum with a strong academic core is a right for all pupils. We seek to encourage pupils to explore subjects of interest around their in-school learning and to enhance their curriculum experience through enrichment.

Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Unit of Work/Big Question	Unit of Work/Big Question	Unit of Work/Big Question	Unit of Work/Big Question	Unit of Work/Big Question	Unit of Work/Big Question
<ul style="list-style-type: none"> <li>- <b>Number:</b> Percentages, decimals</li> <li>- <b>Algebra:</b> Co-ordinates and graphs</li> <li>- <b>Shape:</b> Perimeter and area, Pythagoras' theorem</li> </ul>	<ul style="list-style-type: none"> <li>- <b>Shape:</b> Congruence and similarity, trigonometry with right angled triangles</li> <li>- <b>Statistics:</b> Probability</li> <li>- <b>Ratio:</b> Ratio fundamentals</li> </ul>	<ul style="list-style-type: none"> <li>- <b>Algebra:</b> Terminology, substitution into formulae, rearranging formulae, solving linear equations</li> <li>- <b>Shape:</b> Angles in parallel lines</li> </ul>	<ul style="list-style-type: none"> <li>- <b>Shape:</b> Properties of polygons, volume</li> <li>- <b>Ratio:</b> Compound measures</li> <li>- <b>Algebra:</b> Solving quadratic equations</li> </ul>	<ul style="list-style-type: none"> <li>- <b>Shape:</b> Surface area</li> <li>- <b>Algebra:</b> Sequences, problem solving</li> <li>- <b>Statistics:</b> Measures of central tendency and spread, types of data and sampling, statistical diagrams</li> <li>- <b>Ratio/Algebra:</b> Direct and inverse proportion</li> </ul>	<ul style="list-style-type: none"> <li>- <b>Number:</b> Indices, standard form</li> <li>- <b>Shape:</b> Transformations</li> <li>- <b>Algebra:</b> Types of graphs</li> </ul>
Knowledge	Knowledge	Knowledge	Knowledge	Knowledge	Knowledge
<ul style="list-style-type: none"> <li>- Percentage change calculations</li> <li>- Decimal conversion and rounding</li> <li>- Perimeter and area of 2D shapes</li> <li>- Using coordinate axes to problem solve and plot straight line graphs</li> <li>- Manipulation of <math>y=mx + c</math>, parallel lines.</li> <li>- Apply Pythagoras' Theorem to right angled triangles</li> </ul>	<ul style="list-style-type: none"> <li>- Congruent and similar shapes</li> <li>- Apply Trigonometry to right angled triangles</li> <li>- Probability of combined events</li> <li>- Ratio notation and sharing</li> </ul>	<ul style="list-style-type: none"> <li>- Using correct algebraic terminology</li> <li>- Substitution into formulae</li> <li>- Rearranging algebraic formulae</li> <li>- Solving linear equations</li> <li>- Angles in parallel lines rules</li> </ul>	<ul style="list-style-type: none"> <li>- Properties of triangles and quadrilaterals</li> <li>- Interior and exterior angles of polygons</li> <li>- Calculating volume</li> <li>- Density</li> <li>- Solving quadratic equations</li> </ul>	<ul style="list-style-type: none"> <li>- Surface area of solids</li> <li>- Linear and non-linear sequences</li> <li>- Algebraic cross topic problems</li> <li>- Compare and describe distributions of data sets</li> <li>- Data definitions and sampling</li> <li>- Direct and inverse proportion</li> <li>- Statistical diagrams</li> </ul>	<ul style="list-style-type: none"> <li>- Laws of indices</li> <li>- Calculating in standard form</li> <li>- Rotation, reflection, translation and enlargement</li> <li>- Interpreting and sketching different types of graph</li> </ul>
Skills & Procedural Knowledge	Skills & Procedural Knowledge	Skills & Procedural Knowledge	Skills & Procedural Knowledge	Skills & Procedural Knowledge	Skills & Procedural Knowledge
<p><b>Percentage change calculations</b></p> <ul style="list-style-type: none"> <li>- I can find percentages of amounts</li> <li>- I can use multipliers to carry out percentage change calculations</li> <li>- I can identify a percentage change</li> <li>- I can find the original value of a percentage change (reverse percentage)</li> <li>- I can understand simple interest</li> <li>- I can carry out compound interest and depreciation calculations</li> </ul> <p><b>Decimal conversion and rounding</b></p> <ul style="list-style-type: none"> <li>- I can convert between terminating decimals and fractions</li> <li>- I can round numbers to a given</li> </ul>	<p><b>Congruent and similar shapes</b></p> <ul style="list-style-type: none"> <li>- I can apply the congruence rules for triangles</li> <li>- I can apply angle rules and shape properties to determine congruence</li> <li>- I can use scale factors to determine similarity of shapes</li> <li>- I can find unknown lengths in similar shapes using scale factors</li> </ul> <p><b>Apply trigonometry to right angled triangles.</b></p> <ul style="list-style-type: none"> <li>- I can remember SOHCAHTOA</li> <li>- I can find missing angles in right angled triangles</li> </ul>	<p><b>Using correct algebraic terminology</b></p> <ul style="list-style-type: none"> <li>- I can recognise and can use expressions, equations, formulae, identities, terms</li> <li>- I can manipulate an identity problem to find missing unknowns</li> </ul> <p><b>Substitution into formulae</b></p> <ul style="list-style-type: none"> <li>- I can substitute numerical values including negative and fractional values into formulae and expressions.</li> <li>- I can substitute any numerical value into more complex scientific formulae</li> </ul>	<p><b>Properties of triangles, and quadrilaterals</b></p> <ul style="list-style-type: none"> <li>- I can derive and use the sum of internal angles in a triangle.</li> <li>- I can apply the angle sum of a triangle to derive and use the angle sum in any polygon.</li> <li>- I can recognise different quadrilaterals and their properties</li> </ul> <p><b>Interior and Exterior angles of polygons</b></p> <ul style="list-style-type: none"> <li>- I can recognise and apply the correct terminology when working with polygons e.g regular.</li> <li>- I can find a single interior angle of</li> </ul>	<p><b>Surface area of solids</b></p> <ul style="list-style-type: none"> <li>- I can calculate the surface area of prisms</li> <li>- I can calculate the surface area of spheres, cones or other composite solids (formulae will be given in the question)</li> </ul> <p><b>Linear and non-linear sequences</b></p> <ul style="list-style-type: none"> <li>- I can generate sequences from rules including the nth term</li> <li>- I can identify and use the nth term</li> <li>- I can recognise arithmetic, geometric, quadratic or Fibonacci style sequences</li> </ul>	<p><b>Laws of indices</b></p> <ul style="list-style-type: none"> <li>- I can use and recognise positive power indices</li> <li>- I can use the four index laws with integer indices (including the negative integer power)</li> </ul> <p><b>Calculating in standard form</b></p> <ul style="list-style-type: none"> <li>- I can convert from standard form to ordinary numbers and vice versa</li> <li>- I can calculate with numbers in standard form with a calculator</li> <li>- I can calculate with numbers in standard form without a calculator</li> </ul> <p><b>Rotation, reflection, translation and</b></p>

<p>number of decimal places or significant figures</p> <ul style="list-style-type: none"> <li>- I can estimate answers</li> <li>- I can find the upper and lower bounds (error interval)</li> </ul> <p><i>Perimeter and area of 2D shapes</i></p> <ul style="list-style-type: none"> <li>- I can calculate the area and perimeter of 2D shapes focussing on triangles and quadrilaterals</li> <li>- I can calculate the area of circles and composite shapes</li> <li>- I can calculate the circumference of a circle</li> </ul> <p><i>Using coordinate axes to problem solve and plot straight line graphs</i></p> <ul style="list-style-type: none"> <li>- I can solve geometrical problems on coordinate axes.</li> <li>- I can plot graphs of straight lines from their equations</li> </ul> <p><i>Manipulation of <math>y=mx + c</math>, parallel lines.</i></p> <ul style="list-style-type: none"> <li>- I can use <math>y=mx+c</math> to identify parallel lines</li> <li>- I can identify the gradient and y-intercepts of a linear graph</li> <li>- I can find the equation of the line through a point with a given gradient</li> <li>- I can find the equation of a line through two given points</li> </ul> <p><i>Apply Pythagoras' Theorem to right angled triangles</i></p> <ul style="list-style-type: none"> <li>- I can recall the formula and know when to use Pythagoras' theorem</li> <li>- I can find an unknown hypotenuse</li> <li>- I can find an unknown shorter side</li> </ul>	<ul style="list-style-type: none"> <li>- I can find missing lengths in right angled triangles</li> <li>- I can recall exact values of <math>\sin\theta</math>, <math>\cos\theta</math> or <math>\tan\theta</math> for <math>\theta=0^\circ, 30^\circ, 45^\circ, 60^\circ</math> or 90</li> </ul> <p><i>Probability of combined events</i></p> <ul style="list-style-type: none"> <li>- I can find probabilities by listing outcomes or using sample space diagrams</li> <li>- I can use venn diagrams and recognise set notation</li> <li>- I can use frequency trees in context</li> <li>- I can use probability trees for combined events</li> </ul> <p><i>Ratio notation and sharing</i></p> <ul style="list-style-type: none"> <li>- I can use ratio notation and reduce to its simplest form</li> <li>- I can divide into any given part to part ratio</li> <li>- I can find unknown parts or wholes in a sharing ratio problems</li> <li>- I can apply ratio to real contexts and problems</li> <li>- I can convert between ratios and fractions and use them interchangeably</li> </ul>	<p><i>Rearranging formulae</i></p> <ul style="list-style-type: none"> <li>- I can use inverse operations to</li> <li>- I can change the subject of one step or multi-step formulae</li> </ul> <p><i>Solving linear equations</i></p> <ul style="list-style-type: none"> <li>- I can solve linear equations in one unknown algebraically including negative and fractional solutions</li> <li>- I can solve linear equations with the unknown on both sides of the equation</li> <li>- I can solve equations containing one or more brackets</li> </ul> <p><i>Angles in parallel lines rules</i></p> <ul style="list-style-type: none"> <li>- I can recognise and apply angle rules on intersecting lines, around a point and in 2D shapes</li> <li>- I can identify and apply alternate and corresponding angles in parallel lines</li> <li>- I can find any angle in a parallel lines problem including the C shape (co-interior or supplementary)</li> </ul>	<p>a regular polygon</p> <ul style="list-style-type: none"> <li>- I can find a single exterior angle of a regular polygon</li> <li>- I can find the angle sum in any polygon</li> </ul> <p><i>Calculating volume</i></p> <ul style="list-style-type: none"> <li>- I can find the volume of any prism, including cylinders</li> <li>- I can find the volume of a cone or pyramid given the formula</li> <li>- I can find the volume of a sphere given the formula</li> </ul> <p><i>Density</i></p> <ul style="list-style-type: none"> <li>- I can calculate compound measures, with a focus on density, mass and volume</li> </ul> <p><i>Solve quadratic equations</i></p> <ul style="list-style-type: none"> <li>- I can expand and simplify brackets</li> <li>- I can factorise into single or double brackets</li> <li>- I can factorise a quadratic equation of the form <math>x^2 + bx + c = 0</math> to find its solutions</li> <li>- I can approximate solutions to a quadratic equation using a graph</li> </ul>	<p><i>Algebraic cross topic problems</i></p> <ul style="list-style-type: none"> <li>- I can set up and solve equations using angle rules</li> <li>- I can set up and solve equations using area or perimeter rules</li> </ul> <p><i>Compare and describe distributions of data sets</i></p> <ul style="list-style-type: none"> <li>- I can interpret, analyse and compare data sets using measures of central tendency or spread (median, mean, mode and modal class and range)</li> <li>- I can identify outliers</li> </ul> <p><i>Data definitions and sampling</i></p> <ul style="list-style-type: none"> <li>- I can understand and apply the terms; primary, secondary, discrete and continuous when describing data</li> <li>- I understand the limitations of sampling</li> </ul> <p><i>Direct and inverse proportion</i></p> <ul style="list-style-type: none"> <li>- I can identify cases of direct and inverse proportion correctly</li> <li>- I can recognise and interpret graphs that illustrate direct and inverse proportion.</li> <li>- I can solve proportion problems such as best-buys or better value</li> <li>- I can recognise that inverse proportion is of x and y is that x is directly proportional to 1/y</li> </ul> <p><i>Statistical diagrams</i></p> <ul style="list-style-type: none"> <li>- I can interpret and construct diagrams including bar charts, pictograms and pie charts</li> <li>- I can construct or interpret vertical line charts</li> <li>- I can construct or interpret time-series graphs</li> </ul>	<p><i>enlargement.</i></p> <ul style="list-style-type: none"> <li>- I can translate shapes, or recognise and describe a translation</li> <li>- I can reflect shapes, or recognise and describe a reflection</li> <li>- I can rotate shapes, or recognise and describe a rotation</li> <li>- I can construct, identify and describe enlargements including those with fractional scale factors</li> </ul> <p><i>Interpreting and sketching different types of graph</i></p> <ul style="list-style-type: none"> <li>- I can recognise and sketch graphs of quadratics</li> <li>- I can identify roots, intercepts and turning points of a quadratic graphically</li> <li>- I can recognise and draw simple cubic functions</li> <li>- I can recognise and draw the reciprocal function</li> </ul>
<p>Key Assessment Task (KAT)</p>	<p>Key Assessment Task (KAT)</p>	<p>Key Assessment Task (KAT)</p>	<p>Key Assessment Task (KAT)</p>	<p>Key Assessment Task (KAT)</p>	<p>Key Assessment Task (KAT)</p>
<p>In class test on recent content (week beginning 2nd October)</p>	<p>In class test on recent content (week beginning 11th December)</p>	<p>Major Assessment - One full GCSE calculator paper Week beginning 29th January</p>	<p>In class test on recent content (week beginning 11th March)</p>	<p>In class test on recent content (week beginning 22nd April)</p>	<p>Major Assessment (week beginning 24th June)</p>



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Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Unit of Work/Big Question	Unit of Work/Big Question	Unit of Work/Big Question	Unit of Work/Big Question	Unit of Work/Big Question	Unit of Work/Big Question
<ul style="list-style-type: none"> <li>- <b>Number/Ratio:</b> FDP revision</li> <li>- <b>Algebra:</b> manipulation revision, inequalities</li> <li>- <b>Shape:</b> Pythagoras' theorem revision</li> <li>- <b>Ratio:</b> Proportion revision</li> </ul>	<ul style="list-style-type: none"> <li>- <b>Algebra:</b> Solving quadratics, simultaneous equations</li> <li>- <b>Geometry:</b> Vectors</li> <li>- <b>Ratio:</b> Multipliers in context</li> </ul>	<ul style="list-style-type: none"> <li>- <b>Geometry:</b> Trigonometry</li> <li>- <b>Number:</b> Factors and multiples</li> <li>- <b>Ratio:</b> Compound measures</li> </ul>	<ul style="list-style-type: none"> <li>- <b>Geometry:</b> Constructions and Loci</li> <li>- <b>Statistics:</b> Probability</li> </ul>	<ul style="list-style-type: none"> <li>- <b>Shape:</b> Angle properties</li> <li>- <b>Ratio:</b> Ratio and proportion</li> </ul>	N/A
Knowledge	Knowledge	Knowledge	Knowledge	Knowledge	Knowledge
<ul style="list-style-type: none"> <li>- Fractions, decimals and percentages revision</li> <li>- Algebraic fundamentals revision</li> <li>- Representing and solving Inequalities</li> <li>- More complex algebraic manipulation</li> <li>- Pythagoras' theorem revision</li> <li>- Direct and Inverse proportion revision</li> </ul>	<ul style="list-style-type: none"> <li>- Solving quadratic equations</li> <li>- Simultaneous equations</li> <li>- Vectors</li> <li>- Growth and Decay</li> <li>- TAILORED CONTENT BASED ON QLA AND SPARX, DIFFERING FOR EACH CLASS</li> </ul>	<ul style="list-style-type: none"> <li>- Trigonometry revision</li> <li>- Highest common factor, Lowest common multiple</li> <li>- Compound units</li> <li>- TAILORED CONTENT BASED ON QLA AND SPARX, DIFFERING FOR EACH CLASS</li> </ul>	<ul style="list-style-type: none"> <li>- Compass constructions</li> <li>- Loci problems</li> <li>- Probability revision</li> <li>- TAILORED CONTENT BASED ON QLA AND SPARX, DIFFERING FOR EACH CLASS</li> </ul>	<ul style="list-style-type: none"> <li>- Angle properties revision</li> <li>- Ratio and proportion revision</li> <li>- TAILORED REVISION BASED ON QLA AND SPARX, DIFFERING FOR EACH CLASS</li> </ul>	
Skills & Procedural Knowledge	Skills & Procedural Knowledge	Skills & Procedural Knowledge	Skills & Procedural Knowledge	Skills & Procedural Knowledge	Skills & Procedural Knowledge
<p><i>Fractions, decimals and percentages revision in context of exam style questions</i></p> <ul style="list-style-type: none"> <li>- I can apply the four operations to fractions and mixed numbers</li> <li>- I can apply the four operations</li> <li>- I can calculate percentages of amounts, percentage changes or original amounts</li> </ul> <p><i>Algebraic fundamentals (use of exam questions)</i></p> <ul style="list-style-type: none"> <li>- I can use correct algebraic notation</li> <li>- I can expand and simplify brackets</li> <li>- I can factorise expressions into</li> </ul>	<p><i>Solving quadratic equations</i></p> <ul style="list-style-type: none"> <li>- I can factorise quadratic expressions</li> <li>- I can solve quadratic equations</li> </ul> <p><i>Solving simultaneous equations</i></p> <ul style="list-style-type: none"> <li>- I can solve two linear equations with two variables simultaneously</li> <li>- I can multiply equations in order to solve them simultaneously</li> <li>- I can interpret the solution of simultaneous equations in graphical form</li> <li>- I can set up and solve linear simultaneous equations from</li> </ul>	<p><i>Trigonometry revision (use of exam questions)</i></p> <ul style="list-style-type: none"> <li>- I can apply SOHCAHTOA to find angles in right angled triangles</li> <li>- I can apply SOHCAHTOA to find lengths in right angled triangles</li> <li>- I can remember the exact values for sine, cosine and tangent for angles of 0,30,45,60,90 degrees</li> </ul> <p><i>Highest common factor and lowest common multiple</i></p> <ul style="list-style-type: none"> <li>- I can find the prime factorisation of a number</li> <li>- I can solve problems involving</li> </ul>	<p><i>Compass constructions</i></p> <ul style="list-style-type: none"> <li>- I can construct bisectors of lines or angles using a pair of compasses</li> <li>- I can construct perpendicular lines from a given lines</li> </ul> <p><i>Loci</i></p> <ul style="list-style-type: none"> <li>- I can recognise and use a circle around a point to find a certain distance away from a point</li> <li>- I can find equidistant lines or points using compass constructions</li> <li>- I can solve loci problems involving multiple constructions and scales</li> </ul>	<p><i>Angle properties revision (use exam questions)</i></p> <ul style="list-style-type: none"> <li>- I can use correct geometrical terminology</li> <li>- I can find unknown angles inside shapes or on intersections of lines</li> <li>- I can recognise angle rules in parallel lines</li> </ul> <p><i>Ratio and proportion revision (use exam questions)</i></p> <ul style="list-style-type: none"> <li>- I can work with fractions within ratio problems</li> <li>- I can work with ratio problems to find parts or wholes</li> </ul>	

<p>single brackets</p> <ul style="list-style-type: none"> <li>- I can solve linear equations in one unknown</li> </ul> <p><i>Representing and solving Inequalities</i></p> <ul style="list-style-type: none"> <li>- I can solve linear inequalities</li> <li>- I can represent solutions on a number line</li> </ul> <p><i>Pythagoras' theorem revision (use of exam questions)</i></p> <ul style="list-style-type: none"> <li>- I can find the hypotenuse of a right angled triangle</li> <li>- I can find a shorter side of a right angled triangle</li> </ul> <p><i>Direct and inverse proportion problems</i></p> <ul style="list-style-type: none"> <li>- I can solve problems using direct and inverse proportion, including graphical and algebraic representations</li> <li>- I can solve better value or best buy problems</li> <li>- I can interpret graphs involving scaling such as currency conversions</li> </ul>	<p>context</p> <p><i>Vectors</i></p> <ul style="list-style-type: none"> <li>- I can use diagrammatic and column representation of vectors</li> <li>- I can carry out addition or subtraction of vectors</li> <li>- I can multiply vectors by scalars</li> </ul> <p><i>Growth and Decay</i></p> <ul style="list-style-type: none"> <li>- I can find successive percentage changes using a multiplier</li> <li>- I can calculate growth problems, such as compound interest</li> <li>- I can calculate decay problems where the multiplier is less than 1</li> </ul>	<p>multiples or factors</p> <ul style="list-style-type: none"> <li>- I can solve HCF or LCM problems using lists</li> <li>- I can solve HCF or LCM problems using prime factorisations</li> </ul> <p><i>Compound units</i></p> <ul style="list-style-type: none"> <li>- I can convert between standard units of time, length and capacity</li> <li>- I can calculate with speed, distance and time</li> <li>- I can use distance time graphs</li> <li>- I can calculate with different compound units including pressure, rates of pay, density (revision)</li> </ul> <p>REVISION</p>	<p><i>Probability revision (use exam questions)</i></p> <ul style="list-style-type: none"> <li>- I can work with equally likely outcomes of single events</li> <li>- I can use frequency trees</li> <li>- I can understand relative frequency and expectation</li> <li>- I can solve combined event problems, with a focus on probability trees diagrams and venn diagrams</li> </ul> <p>REVISION</p>	<ul style="list-style-type: none"> <li>- I can solve proportion problems in context such as scaling, mixing, concentration, conversion</li> </ul> <p>REVISION</p>	
Key Assessment Task (KAT)	Key Assessment Task (KAT)	Key Assessment Task (KAT)	Key Assessment Task (KAT)	Key Assessment Task (KAT)	Key Assessment Task (KAT)
Full GCSE exam paper (week beginning 2nd October)	Full GCSE exam paper (week beginning 20th November)	Mocks: Two full papers to be sat in January	Full GCSE exam paper (week beginning 18th March)	External Examination Paper 1	External Examinations Paper 2 Paper 3