

SILS-KS4-Maths-Overview

	AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
Year 10	<p>1. Number</p> <p>Prior knowledge check</p> <p>1.1 Calculations</p> <p>1.2 Decimal numbers</p> <p>1.3 Factors and multiples</p> <p>1.4 Squares, cubes and roots</p> <p>1.5 Index notation</p> <p>1.6 Prime factors</p> <p>1.7 LCM and HCF</p> <p>1.8 Check up</p> <p>2. Algebra</p> <p>Prior knowledge check</p> <p>2.1 Algebraic expressions</p> <p>2.2 Simplifying expressions</p> <p>2.3 Substitution</p> <p>2.4 Formulae</p> <p>2.5 Expanding brackets</p> <p>2.6 Factorising</p> <p>2.7 Check up</p> <p>Half term test and reteach</p>	<p>3. Fractions and percentages</p> <p>3.1 Working with fractions</p> <p>3.2 Operations with fractions</p> <p>3.3 Multiplying fractions</p> <p>3.4 Dividing fractions</p> <p>3.5 Fractions and percentages</p> <p>3.6 Calculating percentages 1</p> <p>3.7 Calculating percentages 2</p> <p>Half term test and reteach</p>	<p>4. Equations, inequalities and sequences</p> <p>4.1 Solving equations 1</p> <p>4.2 Solving equations 2</p> <p>4.3 Solving equations with brackets</p> <p>4.4 Inequalities</p> <p>4.5 Generating sequences</p> <p>4.6 Using the nth term of a sequence</p> <p>3. Angles</p> <p>Prior knowledge check</p> <p>5.1 Angles in parallel lines</p> <p>5.2 Angles in parallel lines</p> <p>5.3 Exterior and interior angles</p> <p>5.4 More exterior and interior angles</p> <p>Half term test and reteach</p>	<p>4. Graphs tables and charts</p> <p>Prior knowledge check</p> <p>5.1 Frequency tables</p> <p>5.2 Two-way tables</p> <p>5.3 Representing data</p> <p>5.4 Time series</p> <p>5.5 Stem and leaf diagrams</p> <p>5.6 Pie charts</p> <p>5.7 Scatter graphs</p> <p>5.8 Line of best fit</p> <p>Half term test and reteach</p>	<p>5. Ratio and proportion</p> <p>Prior knowledge check</p> <p>6.1 Writing ratios</p> <p>6.2 Using ratios 1</p> <p>6.3 Ratios and measures</p> <p>6.4 Using ratios 2</p> <p>6.5 Comparing using ratios</p> <p>6.6 Using proportion</p> <p>6.7 Proportion and graphs</p> <p>6.8 Proportion problems</p> <p>Half term test and reteach</p>	<p>6. Perimeter area and volume</p> <p>Prior knowledge check</p> <p>7.1 Rectangles, parallelograms and triangles</p> <p>7.2 Trapezia and changing units</p> <p>7.3 Area of compound shapes</p> <p>7.4 Surface area of 3D solids</p> <p>7.5 Volume of prisms</p> <p>7.6 More volume and surface area</p> <p>End of year assessment</p>

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 11	<ul style="list-style-type: none"> Review interior angles in polygons Review exterior angles in polygons <p>1. Right angled triangles</p> <p>1.1 Pythagoras' theorem 1</p> <p>1.2 Pythagoras' theorem 2</p> <p>1.3 Trigonometry: the sine ratio 1</p> <p>1.4 Trigonometry: the sine ratio 2</p> <p>1.5 Trigonometry: the cosine ratio</p> <p>1.6 Trigonometry: the tangent ratio</p> <p>1.7 Finding lengths and angles using trigonometry</p> <p>Half term test and reteach</p>	<p>2. Multiplicative reasoning</p> <p>2.1 Convert percentages to fractions and vice versa</p> <p>2.2 Write a number as a percentage of another</p> <p>2.3 Calculate simple interests</p> <p>2.4 Calculate percentage profit and loss</p> <p>2.5 Express a number as a percentage of another in more complex situations</p> <p>2.6 Growth and decay</p> <p>2.7 Reverse percentages</p> <p>2.8 Compound measures</p> <p>2.9 Distance, speed and time</p> <p>Half term test and reteach</p> <p>Mock exam, gap analysis And reteach</p>	<p>3. Quadratic equations and graphs</p> <p>3.1 Expanding double brackets</p> <p>3.2 Plotting quadratic graphs</p> <p>3.3 Using quadratic graphs</p> <p>3.4 Factorising quadratic expressions</p> <p>3.5 Solving quadratic equations algebraically</p> <p>3.6 Solving simultaneous equations algebraically</p> <p>3.7 Rearranging formulae</p> <p>Mock exam, gap analysis And reteach</p>	<p>4 Perimeter area and volume 2</p> <p>4.1 Prior knowledge check</p> <p>4.2 Circumference of a circle 1</p> <p>4.2 circumference of a circle 2</p> <p>4.3 Area of a circle</p> <p>4.4 Semi circles</p> <p>4.5 Area and volume of prisms</p> <p>4.6 Cylinders</p> <p>Mock exam, gap analysis And reteach</p>	<p>5 Fractions, indices and standard</p> <p>5.1 The laws of indices</p> <p>5.2 Writing large numbers in standard form</p> <p>5.3 Writing small numbers in standard form</p> <p>5.4 Calculating with standard form</p> <p>6. Transformations</p> <p>6.1 Prior knowledge check</p> <p>6.2 Translation</p> <p>6.3 Reflection</p> <p>6.4 Rotation</p> <p>6.5 Enlargement</p> <p>6.6 Describing transformations</p> <p>6.7 Combining transformations</p> <p>Half term test and reteach</p>	<p>Preparation for GCSE Exam</p> <p>Mock exam, gap analysis And reteach</p>