

Topic no.	Topic name	Learning objective
<b>Unit 1: Calculations</b>		
1.1	<b>General calculations and rounding 1</b>	To recall addition, subtraction, estimation, rounding numbers and using the calculator
1.2	<b>General calculations and rounding 2</b>	To recall multiplication, division, rounding numbers and using the calculator
1.3	<b>Counting and tallying</b>	To learn techniques of counting and tallying
1.4	<b>Percentages</b>	To find percentages using a calculator
1.5	<b>Percentage increases and decreases</b>	To solve problems involving percentages
1.6	<b>Powers and square roots</b>	To learn to use the $x^2$ , $x^n$ and $\sqrt{\quad}$ buttons on the calculator
1.7	<b>Order of operations</b>	To practice problems involving brackets and powers
1.8	<b>Strategies of checking</b>	To learn techniques of checking
<b>Unit 2: Measurement: distance, time and speed</b>		
2.1	<b>Length and distance</b>	To convert between units of length
2.2	<b>Time</b>	To convert between units of time
2.3	<b>12/24-hour clock</b>	To convert between the 12 and the 24-hour clock
2.4	<b>Time as decimal</b>	To express minutes and seconds as decimals and vice versa
2.5	<b>Speed</b>	To use formulae to calculate distance, time and speed
<b>Unit 3: Fractions, decimals, percentages and ratio</b>		
3.1	<b>Equivalent fractions</b>	To convert fractions to equivalent fractions
3.2	<b>Adding and subtracting fractions</b>	To add and subtract fractions
3.3	<b>Multiplying and dividing fractions</b>	To multiply and divide fractions
3.4	<b>Fractions to decimals</b>	To convert between fractions and decimals
3.5	<b>Percentages to decimals and fractions</b>	To convert between percentages, decimals and fractions
3.6	<b>Ratio</b>	To examine and solve practical problems using ratio

Topic no.	Topic name	Learning objective
3.7	Direct proportions	To solve problems involving direct proportions
3.8	Indirect proportions	To solve problems involving indirect proportions
<b>Unit 4</b>	<b>Measurements of 2D and 3D shapes</b>	
4.1	Perimeter	To calculate the perimeter of different shapes
4.2	Area	To use formulae to calculate the area of various shapes
4.3	Volume of regular shapes	To use formulae to calculate the volume of 3D shapes
4.4	Volume and capacity	To use displacement in water technique to find volume
4.5	Nets and surface area of cubes and cuboids	To learn about the nets and surface area of cubes and cuboids
4.6	Nets and surface area of cylinders	To learn about the nets and surface area of cylinders
<b>Unit 5 Geometry of 2D and 3D shapes</b>		
5.1	Scale diagrams	To interpret and draw scale diagrams
5.2	Angles in triangles and parallelograms	To recognise and use important facts about angles in triangles and parallelograms
5.3	Pythagoras' theorem	To verify and apply the theorem of Pythagoras
<b>Unit 6 Relationships and expressions</b>		
6.1	Evaluating expressions	To evaluate expressions given the value of variables
6.2	Representing linear relationships	To represent linear relationships in tables, graphs and words
<b>Unit 7 Presentation and analysis of data</b>		
7.1	Trend graphs	To use trend graphs to show changes in data over time
7.2	Pie charts	To draw pie charts to present and compare information
7.3	Bar charts	To draw bar charts to present and compare information
7.4	Averages and frequency tables	To investigate the mean, median and mode and to introduce frequency tables
7.5	Measures of spread and representative samples	To learn about measures of spread in a data set and what a representative sample means

<b>Topic no.</b>	<b>Topic name</b>	<b>Learning objective</b>
<b>7.6</b>	<b>Histograms</b>	To investigate histograms
<b>Unit 8 Business transactions</b>		
<b>8.1</b>	<b>Time and money</b>	To calculate costs incurred over time
<b>8.2</b>	<b>Currency conversion</b>	To convert euro into different currencies and vice versa
<b>8.3</b>	<b>Comparative price work</b>	To compare prices taking weight/volume into account
<b>PAST EXAM PAPERS</b>		2022, Sample, (2023), 2023, 2024