Year 8

Subject Mathematics

Term	Week	Focus	Summary	Learning Outcomes
Term 1	1		Baseline Assessments	Introduction lessons and baseline assessments.
	2	Number	Prime Numbers and Prime Factorisation	Product of prime factores using Factor tree, Finding LCM, HCF using Venn diagram/factor tree
	3		HCF and LCM	LCM, HCF reverse problems, worded problems
	4		Multiplying and dividing by powers of 10	To identify the correct place value, to multiply, divide using powers of 10, multiply and divide by 0.1 and 0.01 and to use inverse and related calculations.
	5		Estimation and rounding	Rounding to 1/2/3 dp, 1/2/3 sf, effects of rounding on estimation
	6	Ratio and Proportion	Fractions: Addition and Subtraction	Add and subtract like/unlike fractions, mixed/ improper fractions including worded problems.
	7		Fractions: Multiplication and Division	Multiply and divide like/unlike fractions, mixed/ improper fractions including worded problems.
	8	Ratio and Proportion	Ratio	Writing ratio's as n : 1 / 1 : n - comparing ratio's by using this method, Writing ratio as fractions and equations,
	9		Ratio	Combining ratio's a:b and b:c, find the ratio a:b:c, worded problems
	10		Length in Similar Shapes	Recognise similar shapes; compare lengths (lengths of lines and lengths of sides of 2D shapes); calculate the scale factor of similar shapes, find missing sides of similar shapes.
	11		Pie Charts	Draw pie charts given a frequency table and vice versa; read and interpret Pie chart using key information.
	12	Perimeter, area and volume	2D Pythagoras' Theorem	To state Pythagoras' Theorem and apply this by labelling right-angled triangles. To find a missing hypotenuse length. To find a missing shorter side length.
	13		Area of Circles	Calculate the area of a full circle when given the radius/diameter; calculate the area of semi or quarter circles, calculate the radius or diameter given the area; area of a shaded region by finding multiple areas.
	14		Circumference of Circles	Calculate the circumference of a circle; worded problems on circumference of a circle; work backwards to find the radius/diameter when given the circumference of a circle; calculate the circumference of semi or quarter circles.