## YEAR 10 FOUNDATION

## HALF TERM 4

What?	Lesson 1	Lesson 2	Lesson 3	Lesson 4
When?	Learning intentions	Learning intentions	Learning intentions	Learning intentions
	(what can a student do at	(what can a student do	(what can a student	(what can a student do at the
Why?	the end of the lesson)	at the end of the lesson)	do at the end of the	end of the lesson)
			lesson)	
Week	Use positive integer powers and associated real roots	Recognise powers of 2, 3, 4,	Index rules	Index rules.
1	(square, cube and higher)	5. including square numbers up to 15 x 15		
	(square, cube and nigher)	numbers up to 15 x 15		
		know that 1000 = 10 <sup>3</sup> and 1		
		million = 10 <sup>6</sup>		
		Calculate with roots and		
100	Change hetween nemer	with integer indices Change between normal	Calculate with standard	Calculate with standard form
Week	Change between normal numbers and standard form	Change between normal numbers and standard	form without a	with a calculator (inc problem
2	for large numbers	form for small numbers	calculator.(inc problem	solving).
	Tor large nambers	Torri for small nambers	solving)	Solving).
Week	Express one quantity as a	Use ratio notation,	Divide a given quantity	Apply ratio to real contexts and
3	fraction of another, where	including reduction to	into two parts in a	problems (such as those
3	the fraction is less than 1 or	simplest form. (inc 1:n and	given part : part or part	involving conversion,
	greater than 1(R)	n:1)Express the division of a	: whole ratio	comparison, scaling, mixing and
		quantity into two parts as a		concentrations)
		ratio		
Week	Change between fractions,	Relate ratios to fractions	Problem solving	Identify and apply circle
	ratios and percentages.(R)	and to linear functions	involving %.(past paper	definitions and properties,
4			questions)	including centre, radius, chord,
				diameter, circumference,
				tangent, arc, sector and segment
Week	Know and use the formula for the circumference of a	Know and use the formula for the circumference of a	Know and use the formula for the area of	Know and use the formula for
5	circle. Find circumference in	circle.(calculator)	a circle. <u>Find area in</u>	the area of a circle(calculator)
	terms of $\pi$ .(non calculator)	circle.(calculator)	terms of $\pi$ (non	
	cerns of Adjusticalatory		<u>calculator)</u>	
Week	Find area of quadrants and	Find perimeter of	Find area and	Calculate surface area of
	semi circles.	quadrants and semi circles.	perimeter of sectors.	spheres, cones and composite
6				<u>solids</u>