Year 9 Objective List – Foundation   HT1

Number and Multiplicative Reasoning:

Objective	Sparx Task	
Divisibility rules	M823	
Identify factors using division	M823	
Identify prime numbers	M322	
Identify and use multiples		
Review of add and subtract with negatives	M106	
Multiply with negatives	M288	
Divide with negatives	M288	
Solve problems with negative numbers	M106, M288	
Index notation for squares and calculating with squares	M135	
Index notation and writing a number as a product of prime factors	M108	
Calculating square and cube roots using prime factor decomposition LCM and HCF of a set of numbers	M108	
LCM and HCF using prime factor decomposition	U250	
Order of operations with multiply and divide	M521	
Calculations under a square root	M521	
More complicated calculations involving operations on numerators and denominators	M521	
Squaring negatives on a calculator	M757	
Multiplying and dividing by powers of 10 using index notation	M113	
Writing a ratio, simplifying a ratio including with fractions and decimals	M885	
Simplifying ratios	M885	
Simplifying ratios with fractions and decimals	M267	
Writing a ratio as a fraction	M267	
Using ratio tables		

Converting metric units	M772, M530, M761	
Sharing a ratio in two or more parts using bar models	M525	
Sharing in a ratio when given value of one part of the ratio	M525	
Using ratios in scales on maps, metric to imperial conversions and double number lines	M112	
Unitary methods to solve ratio and proportion problems	M478	
Simple problem solving with ratio and inverse proportion	M478	
Simple problem solving with direct proportion	M478	
Writing a ratio in the form 1 to n	M543	
Use scale factors on scale diagrams and maps	M112	