Year 8 Objective List – Higher HT5 – 2022-23

Expressions, Equations and Sequences:

Objective	Sparx Task	
Finding the next term in a sequence	M381	
Identifying square, cube, and fibonacci sequences	M981	
Recognise geometric arithmetic, quadratic and	M418	
Fibonacci sequences and predict the next term	M981	
Finding the nth term from patterns such as matchsticks	M866	
Finding the nth term of an arithmetic sequence	M991	
Linking patterns	M866	
Nth terms and straight line graphs	M991	
Use the nth term of a linear sequence to solve a problem	M991	
Find the nth term of a geometric sequence	U958	
Plot coordinates from a rule to generate a straight line graph	M932	
Use a table of values to plot graphs of simple linear functions	M932	
Identify y intercept	M544	
Identify the equations of horizontal and vertical lines	M797	
Begin to understand the concept of gradient	M544	
Read and interpret real life graphs e.g. conversion graphs	M771	
Identify when two values are in direct proportion	M448	
Use graphs to solve direct proportion problems	M448	

Interpret financial graphs	U638	
Units for speed and calculating speed	U151	
Interpret distance time graphs	M581	
Calculate average speed from distance time graphs	M247	
Draw distance time graphs	M551	
Interpreting graphs to show rates of change	U914	
Understand when graphs are misleading		