Year 10 Objective List – Higher HT2 – 2022-23

Fractions, Percentages, Ratio & Proportion

Objective	Sparx Task	
1.Perform all operations with fractions, including mixed numbers	U704 U646 U746 U736 U793 U475 U224 U544 U538	
2.Convert a recurring decimal to a fraction	U689	
3.Find reciprocal and convert between FDP	U888	
4.Find a percentage increase/decrease and understand how to use a 'multiplier'	U671	
5.Find a percentage or an original amount by using a multiplier	U286	
6.Use simple and compound interest	U533 U332	
7.Use percentages in real life situations, including percentages over 100		
8.Simplify and give equivalent ratios. Write as 1:n or n:1. Ratios as fractions		
9.Use and ratio to split a quantity or work out other amounts		
10.Convert between ratios and linear functions	U676	
11.Use proportion within tables/ best buys/ currency conversion	U610	
12. Use direct and inverse proportion to solve problems	U407 U721 U138	
13. Understand and use fractions as multiplicative inverses		
14. Find reciprocals of integers, decimals and fractions		
15. Understand that fractions can be more accurate in calculations and choose to convert appropriately.		
16. Use ratios to compare scaled objects to real life		
17. Use proportion to scale up/down recipes		

Probability

Objective	Sparx Task	
1.Find single event probabilities including compliments and probabilities of events not happening.	U408 U510	
2.List all outcomes of single and combined events systematically.	U104	
3.Understand experimental and theoretical probability.	U580	
4.Find relative frequency and expected out comes from experimental data.	U166	
5.Understand independent and mutually exclusive events.	U683	
6.Use tree diagrams to find probabilities of independent events	U558	
7.Use tree diagrams for conditional events	U729	
8.Use two way tables to find probabilities, including conditional.	U246	
9.Use a Venn diagram to represent real life situations.	U476	
10.Use a Venn diagram to find conditional probabilities.	U748	
11.Use intersection and union notation.	U296	
12.Compare experimental/ theoretical probabilities and make inferences.		