Unit 13 Probability:

Objective	Sparx Task	
Use a probability scale (distinguish between impossible, certain, likely, unlikely and even chance)	U803	
Find probabilities from single theoretical events including dice, coins, spinners etc.	U408 U510	
Work out probabilities from frequency tables, frequency tress and two way tables.	U280	
Understand mutually exclusive events and that probabilities should always sum to 1.	U683	
Be able to compare experimental and theoretical probabilities and make inferences	U166	
Define experimental probability and understand relative frequency and expected outcomes.	U673	
List outcomes systematically for single and combined events (sample spaces)	U104	
Find probabilities from combined events and understand the importance of AND and OR in context.		
Use tree diagrams for two dependant/independent events	U558 U729	
Fill in a Venn diagram from raw data or a frequency table	U476	

REVISION Unit 11 Ratio and Proportion:

Objective	Sparx Task	
Write a ratio to describe a situation and cancel into it's lowest form.	U687	
Understand and use the relationship between ratios and fractions	U176 U753	
Split an amount into a given ratio. Explore this relationship	U577	
Solve a mixture of ratios problems (be able to use ratio tables)	U921	
Understand proportional amounts and links to ratio	U865	
Solve worded problems involving different types of proportion	U721	
Scale up recipes, convert currencies	U610	
Use the unitary method/ratio tables as ways of solving proportion/best buys problems	U640	

*Write ratios in 1:n and n:1 form		
* Understand the link between ratios and equations		
*Use given amount in ratio questions 3 different ways		
*Link proportion to graphs		
*Start to explore the direct proportion relationship of y=kx		

*Additional objectives

Unit 14 Multiplicative reasoning:

Objective	Sparx Task	
Recall speed formulae and use to find variables (or proportional reasoning)	U151	
Interpret and understand distance/time graphs	U256	
Recall and use formulae for density. Link to volumes work.	U910	
Recall and use formulae for pressure	U527	
Convert between different compound units.	U515	
Substitute into the various kinematics formulae (do not need to recall these)		
Use percentage as an operator (profit, loss, repeat percentage change, original amounts)		
Use compound interest		
Use a variety of measures within proportion problems (e.g. currency, rates of pay)	U721	
Understand types of proportion (direct/inverse) and start to interpret growth/decay problems	U357	