

GCSE UNIT SUMMARY: UNIT 14: Multiplicative reasoning: more percentages, rates of change, compound measures

Unit Description	Taught	Revision Priority
Understand and use compound measures: density; pressure; speed:		
For speed problems; convert between metric speed measures; read values in km/h and mph from a speedometer; calculate average speed, distance, time – in miles per hour as well as metric measures; use kinematics formulae from the formulae sheet to calculate speed, acceleration (with variables defined in the question); change d/t in m/s to a formula in km/h, i.e. $d/t \times (60 \times 60)/1000$ – with support;		
Express a given number as a percentage of another number in more complex situations;		
Calculate percentage profit or loss;		
Make calculations involving repeated percentage change, not using the formula;		
Find the original amount given the final amount after a percentage increase or decrease;		
Use compound interest;		
Use a variety of measures in ratio and proportion problems: currency conversion; rates of pay; best value;		
Set up, solve and interpret the answers in growth and decay problems;		
Understand that X is inversely proportional to Y is equivalent to X is proportional to $\frac{1}{Y}$		
Interpret equations that describe direct and inverse proportion.		