

R15

R16

Longfield Learning Journey



Key S						
Key Words:		Prerequisites			Α	G
Speed, distance, time, density		Convert units cm to m etc				
, mass, volume, gradient, direct proportion, indirect		Rearrange formula				
proportion, ratio		Multiply and divide by fractions and decimals				
	Content:		$\overline{\top}_{l}$	R	Α	G
	Content: Unit of Prop	ortionality				
R1	Change freely between related standard units (e.g. time, length, area, volume/capacity, mass) and compound units (e.g. rates of pay, prices, density) in numerical contexts.					
R11	Use compound units such as speed, rates of pay, unit pricing, density and pressure.					
R12	Compare lengths, areas and volumes using ratio notation; make links to similarity and scale factors.					
R10	Solve problems involving direct and inverse proportion, including graphical and algebraic representations.					
R13	Understand that X is inversely proportional to Y is equivalent to X is proportional to 1/Y. direct and inverse proportion.					
R13						
R14	Interpret the gradient of a straight line graph as a rate of change.					
R14	Recognise and interpret graphs that illustrate direct and inverse proportion.					
D15						

K	W	L
What you know	What you want to know	What have you learned

Interpret the gradient at a point on a curve as the instantaneous rate of change

and tangents) in numerical, algebraic and graphical contexts.

interest and work with general iterative processes.

Apply the concepts of average and instantaneous rate of change (gradients of chords

Set up, solve and interpret the answers in growth and decay problems, including compound