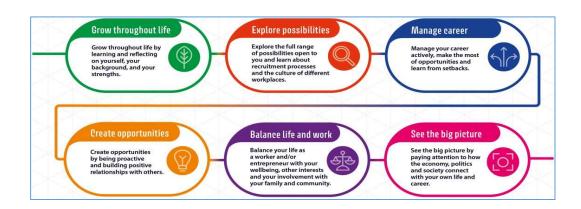


Kilgarth School – Mathematics Department Scheme of Learning Links to Careers

	Autumn Term	Spring Term	Summer Term
Year 7	Calendar and Time – Pupils link this skill to	Conversions – linked to factory production and	Statistics – how the media / advertising use
	self- management skills	construction measurements/artists/engineering	diagrams to statistics in the way they want them to look/ persuasive advertising
	Area – how jobs like gardening, decorating,	Algebra – links to formula for area, perimeter	
	etc, need a solid understanding of area	used by carpet fitters/painters/landscaping	Data representation – contextually linking to various industries and how data is used
	Statistics – how the media / advertising use	Percentage – links to	
	diagrams to statistics in the way they want them to look	banking/mortgages/wages/retail industry	Plans and elevations linked to architects and cartographers
		Ratio and proportion – links to catering and	
	Estimation used to calculate pricing a job	preparing food	
	Angles and how they are used in the building trade		
Year 8	Sequences – links to IT and how sequences	Statistics – how consumer research would get	Construction – how this is used by architects /
	can be important	information about varying things by collecting data.	designers / artists / engineers to draw accurate designs.
	Using number and algebra for problem		
	solving – linking to logistics	Distance/Time – related to logistic company.	Fractions used in context in the catering industry.
	Construction – how this can be used in the	Substitution – linked to calculating food	
	construction industry	quantities.	Frequency Tables – linked to the sporting industry
	Statistics – linking to croupier/ cruise		
	ships/casinos/betting shops/statistical		
	medical research		
	Perimeter and area – Contextual questions		
	from various construction job scenarios		

	Autumn Term	Spring Term	Summer Term
Year 9	Co-Ordinates – how anything needing the	Percentage change – how banks calculate the	Averages and sampling – medical research and
	use of maps would link to co-ordinatinates	interest in loans / accounts	food safety links
	Error Intervals – Engineering and medical research to explain tolerances	Measures mass etc. linked to science and engineering	Statistics – population study
			Money and measure – job costing/quantity
		Presenting data linked to professions that	surveyor
		require demonstrations and management jobs	
Year 10	Graphical representation – understanding	Pythagoras and Trigonometry – how this is used	Scale drawing - how this is used by architects /
	and presenting data of all statistical	by architects / designers / engineers to draw	designers / engineers to plan designs
	information in different industries/reporter	accurate designs.	
			Bearings – how pilots use these to navigate
	Simple kinematic problems –	Volume and density – Packers/retail	
	Engineers/mechanics/drivers	producers/engineers/sport	Quadratic equations used in basic engineering
	Using Ratio and proportion to solve contextual problems in	Probability – in clinical research	
	banking/catering/construction/logistics		
Year 11	Standard Form – how this is used in science		
	and engineering to represent very large or		
	very small amounts		



All the above Mathematics Learning, link to the CDI Framework to enrich our pupils.