

Mathematics and Careers

Examples of Curriculum Links to Futures

	Curriculum Theme/Topic	How Do You Link This Theme/Topic to Careers?	What Careers Related Extra-Curricular Opportunities Are Offered?	What Employer/Employee Encounters Are Offered?
Year 7	1. Algebraic Notation	Presenting work clearly, skills lesson linked to careers as IT Consultants, Teachers and Actuaries		
	2. Addition, Subtraction, Multiplication and Division	Numeracy skills lesson linked to careers in Nursing, Accountancy and Financial Trading		
	3. Fractions	Joiner – working in inches fitting kitchens Engineer – gears and ratios		
Year 8	1. Fractions and Percentages	Problem Solving skills lesson linked to careers in Software Testing, Operations Management and Tax Advisory		
	2.	Statistical Sampling skills lesson linked to careers as Statisticians, Economists and Meteorologists.		
	3.			

Year 9	1. Representing <u>Data</u> (Consolidation Week Task)	Knowledge in Maths lessons linked to careers in Data Analysis		
	2. Scale Drawings (Consolidation Week Task)	Knowledge in Maths lessons linked to careers in Landscape Gardening		
	3. Data Handling (Consolidation Week Task)	Knowledge in Maths lessons linked to careers in Market Research		
	4. Money Calculations (Consolidation Week Task)	Knowledge in Maths lessons linked to careers in Finance		
Year 10				
	1. Bearings	Links made to careers in Armed Forces, as Ship Captains and as Pilots		
	2. Pythagoras/Trigonometry	Construction and architecture – ensuring structures are stable and measured correctly Crime scene investigators – road traffic accident analysis, blood trajectory, gun placement etc		
	3. Representing Data	Data Analysis Skills lesson linked to careers in Retail, Medical Research and Data Science.		
Year 11				
	1.			
	2. Growth and Decay	Links made to careers as Biologists Financial		

		advisor/ mortgage advisor – potential trends due to national pictures Scientist – population change, bacteria		
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Applying Mathematical Knowledge to The Workplace

Our pupils will apply the knowledge they are gaining from studying (subject) to a variety of workplace scenarios in the following ways.

Knowledge Lesson Title	Year Group	Within Which Unit (SoW)

Using Mathematical Skills in the Workplace

Our pupils will see the correlation between the skills they use in (subject) lessons and the skills that are used in the workplace, by looking in detail at 7 skills and trying school-based and workplace-based tasks for each skill.

Skills Lesson Title	Year Group	Within Which Unit (SoW)
Lesson 1 – Problem Solving	8	Fractions and Percentages
Lesson 2 - Numeracy	7	Multiplication and Division
Lesson 3 – Data Analysis	10	Collecting and Representing Data
Lesson 4 – Presentation	7	Algebraic Notation
Lesson 5 – Statistical Sampling	8	The Data Handling Cycle