

## 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?
<b>Year 7</b>	1. Place value and ordering	Use of median – link to statistician, marketing in the media		
	2. Fractions and percentages	Numeracy skills lesson linked to careers in Nursing, Accountancy and Financial Trading		
	3. Addition and Subtraction	Financial Maths linked to careers involving profit/loss/banking		
<b>Year 8</b>	1. Multiplicative change	Scale diagrams – link to Architects, Construction, joinery etc		
	2. Representing data	Data analysis – Skills lesson 3		
	3. The Data Handling Cycle	Statistical Sampling- skills lesson 5 linked to careers as Statisticians, Economists and Meteorologists.		
<b>Year 9</b>	1. Forming and solving equations	Formulae and equations – link to structural engineer <a href="https://www.mathscareers.org.uk/10-jobs-that-use-pi/">https://www.mathscareers.org.uk/10-jobs-that-use-pi/</a>		
	2. Maths and money	Knowledge in Maths lesson 4 - linked to careers in Finance		
	3. Pythagoras theorem	Knowledge in Maths lesson 2 - linked to careers in Landscape Gardening		

<b>Year 10</b>	1. Trigonometry	Links made to careers: Forensic Scientist		
	2. Collecting and representing data	Knowledge in Maths lesson 3 – market researcher		
	3. Non-calculator methods	Knowledge in Maths lesson 1 – data analyst		
<b>Year 11</b>	1. Growth and Decay	Links made to careers as Biologists and ecologists looking at half-life growth	LuSOM talk about Maths School	

### 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)
Knowledge in Maths lesson 1 – data analyst	10	Collecting representing and interpreting data
Knowledge in Maths lesson 2 – landscape gardener	9	Pythagoras Theorem
Knowledge in Maths lesson 3 – market researcher	10	Collecting representing and interpreting data
Knowledge in Maths lesson 4 – finance officer	9	Maths and Money

### 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	7	Addition and subtractions
Lesson 2 - Numeracy	7	Fractions and percentages of amounts
Lesson 3 – Data Analysis	8	Representing Data
Lesson 4 – Presentation	8	The Data Handling Cycle
Lesson 5 – Statistical Sampling	8	The Data Handling Cycle