Relevance of Maths in Future Careers

Year 5

	Learning Objective	Summary of Lesson	Key Knowledge Children Will Learn by the End of the Lesson
1	Understanding decimals in context	Introduction to decimals through real-world applications such as accounting and technology.	The concept of decimals and their practical applications in everyday life and specific jobs.
2	Applying percentages	Explore how percentages are used in sales, finance, and statistics. Hands-on activities involving calculating discounts and interest rates.	How to calculate and apply percentages in various real-life situations relevant to business and commerce.
3	Measurement and units	Investigating the use of measurement in professions such as carpentry, medicine, and engineering through practical tasks.	Awareness of different measurement units and their practical use in various professions.
4	Problem-solving with multiplication and division	Case studies focusing on problems in logistics, coding, and construction that require multiplication and division.	Advanced multiplication and division skills, emphasizing their importance in solving real-world problems.
5	Using shapes and space in the real world	Exploration of geometry in architecture, design, and art. Practical activities include designing a simple layout using geometric principles.	Understanding of shapes, spatial awareness, and geometry in practical and occupational settings.
6	Data handling and interpretation	Looking at how data is used in marketing, environmental science, and healthcare. Activities include creating graphs and interpreting data sets.	Skills in handling and interpreting data, and how this is applicable in various careers.

Year 6

Lesson Number	Learning Objective	Summary of Lesson	Key Knowledge Children Will Learn by the End of the Lesson
1	Understanding the role of maths in everyday life	Introduce how maths is used in various aspects of everyday life, such as shopping, cooking, and time management.	Pupils will learn how basic arithmetic operations are applicable in daily tasks.
2	Applying percentages and fractions in real life contexts	Explore the use of percentages and fractions in financial literacy, such as discounts and budgeting.	Pupils will understand how to calculate percentages and apply fractions in financial contexts.
3	Exploring geometry in the workplace	Discuss the application of geometry in professions such as architecture, engineering, and design.	Pupils will learn how geometric concepts like shape, space, and measure are critical in various careers.
4	Investigating the role of statistics and probability	Explore how statistics and probability are used in fields like marketing, sports, and healthcare.	Pupils will understand the basics of statistical representation and probability calculations.
5	Mathematical reasoning in problem solving	Apply mathematical reasoning to solve complex problems that professionals might face in various sectors.	Pupils will develop problem-solving skills using algebraic and geometric reasoning.
6	Integrating maths with technology and computing	Explore how mathematical skills are essential in coding, app development, and using technology effectively in the workplace.	Children will learn the importance of maths in the digital age and its application in computing careers.