

Entry Level 3 Maths Overview

 Intent	 Implementation	 Impact
This Scheme of Work is designed to meet the specific needs of Entry Level 3 learners by embedding mathematical knowledge in meaningful, real-life vocational contexts, with a strong focus on welding and fabrication. • Provide Entry Level 3 learners with the foundational numeracy skills required for success in real-world contexts—particularly within welding and fabrication industries. • Develop mathematical confidence and fluency in key areas including number, measure, shape, and data. • Embed functional, vocational maths through project-based learning and practical tasks that reflect industry standards. • Support progression to Level 1 Functional Skills and provide a bridge to further education, apprenticeships, or employment in technical sectors.	The programme is delivered through a consistent, practical, and differentiated structure that blends classroom teaching with applied welding and fabrication experiences. • Thematic weekly units combining core maths content with welding-related practical applications, including estimating materials, measuring stock, calculating costs, and analysing workshop data. • Differentiated learning outcomes for all learners in every session to ensure inclusive progress. • A blend of hands-on activities, mini-assessments, peer collaboration, practical demonstrations, and workbook-based learning. • Weekly welding/fabrication application lessons, allowing learners to directly apply maths to real-life fabrication contexts, enhancing relevance and engagement. • Progressive build-up to final summative assessments, including	The impact of the programme will be evident in learner outcomes, practical capabilities, and increased confidence in using maths in real-life situations. • Learners will have gained confidence and competence in key maths skills relevant to both everyday life and workplace environments. • Learners will be able to apply maths independently in welding and fabrication scenarios, demonstrating functional problem-solving. • Assessment data (mock and final) will show measurable progress across content areas, with learners improving from diagnostic baselines. • Learners will have developed workplace readiness skills, including teamwork, accurate measuring, budgeting, and interpretation of technical information. • Learners will leave with a clear record of progress, increased self-esteem, and a pathway to further vocational

			mock exams, revision stations, and confidence-building workshops.		training or entry-level employment in technical trades.	
Term 1						
Subject	Week 1-2	Week 3-4	Week 5-6	Week 7-8	Week 9-10	Week 11-12
Entry Level 3 Maths	Week 1: Diagnostic and Place Value & Counting	Week 3: Multiplication & Division	Week 5: Percentages and Money	Week 7: Shape and Space	Week 9: Revision and Functional Maths Projects	Week 11: Final Preparation
	Diagnostic and Introduction to Workshop Maths	Introduction to Multiplication	Understanding Percentages	2D Shapes and Properties	Number and Calculation Revision	Targeted Revision – Personalised Pathways
	Reading & Writing Whole Numbers	Introduction to Division	Using Money and Budgeting	3D Shapes and Nets	Measures, Shape and Data Revision	Exam Technique and Confidence Building
	Counting & Estimating	Welding – Grouping and Remainders in Material Distribution	Welding – Estimating Cost of Jobs	Welding – Shapes in Frame Design	Welding – Project Planning Task	Welding – Maths in My Workshop
	Welding – Estimating Stock	Week 4: Fractions and Decimals	Week 6: Measures	Week 8: Data Handling	Week 10: Mock Assessment and Targeted Support	Week 12: Final Assessment and Reflection
	Week 2: Addition & Subtraction	Recognising and Using Fractions	Measuring Length and Weight	Collecting and Recording Data	Mock Assessment – Functional Skills Paper A	Final Assessment – Functional Skills Paper B
	Addition Strategies	Decimals and Place Value	Capacity and Temperature	Interpreting Charts and Graphs	Marking and Review	Marking and Final Feedback
	Subtraction Strategies	Welding – Measuring and Comparing Lengths with Fractions	Welding – Measuring and Marking Materials	Welding – Recording Tool Usage	Welding – Final Practical Task Application	Celebration and Review of Learning Journey

	Welding – Calculating Stock Used					
Skills Developed						
	Reading, writing and recognising numbers to 100 Ordering and comparing numbers using number lines Estimating and rounding to the nearest 10 Counting in 1s, 2s, 5s and 10s Addition and subtraction of two-digit numbers Using number lines and column methods Solving one- and two-step word problems	Using multiplication facts (2s, 5s, 10s) Creating and understanding arrays Dividing into equal groups and interpreting remainders Linking multiplication and division for problem solving Recognising and representing simple fractions ($\frac{1}{2}$, $\frac{1}{4}$, $\frac{3}{4}$) Converting simple fractions to decimals Measuring and expressing parts of a whole in fraction and decimal form	Understanding percentages and finding percentages of amounts (10%, 25%, 50%) Calculating costs and totals with real money scenarios Budgeting within a fixed amount Estimating material costs and adding/subtracting prices in context Measuring and estimating length, weight, and capacity Converting between cm, m, g, kg, ml and L Reading thermometers and	Identifying and describing properties of 2D shapes (sides, angles, symmetry) Recognising and constructing 3D shapes Understanding nets and faces of solid shapes Applying shape understanding to design welding frames and supports Creating and interpreting tally charts and tables Reading and drawing bar charts and pictograms	Reviewing key number operations, measure, and shape skills Planning a welding task with cost, length and quantity calculations Applying multiple maths skills in a vocational project Strengthening reasoning and practical application skills Completing mock assessment under timed conditions Reviewing responses and identifying areas for development	Targeted revision of weak areas (data, decimals, money, shape) Practising exam techniques and time management Reflecting on personal progress and goal setting Connecting maths to workplace practices in welding and fabrication Completing a final Entry Level 3 assessment Reviewing personal results and reflecting on achievements Discussing next steps and progression to

	Subtracting from totals to find differences or quantities remaining	Applying fraction and decimal understanding to materials and quantities	jugs for temperature and volume Using measuring tools accurately for cutting and marking out	Analysing simple data for trends and comparisons Recording tool usage and presenting workshop data	Practising accuracy, checking work and refining methods Applying numeracy across different contexts under exam pressure	Level 1 or vocational pathways Celebrating successes and recognising real-world application of maths
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