Maths Programme of Study at Lansdown Park Academy

The Maths Programme of study at Lansdown Park is matched to the mainstream curriculum and adapted to the specific needs of our students and fit within the 5 Curriculum Aims (Ethos, Relating to Staff, Relating to Others, Managing Learning and Managing Situations) of Lansdown Park Academy.

Intent/Aims of Maths Programme of Study

The KS3 Programme of study at Lansdown Park Academy is based on the subject content for Functional Skills Maths at Entry Level and Level 1.

A key aim for Functional Skills Maths specifications is that they should enable the student to develop confidence and fluency in Mathematics.

Students should be able to demonstrate their competence in Mathematics by using it in real-world situations as well as demonstrating a sound grasp of basic knowledge and skills.

Aims of Functional Skills Mathematics – Entry Levels 1-3

- Enable students to become confident in their using of fundamental mathematical knowledge and skills, as described through the content.
- Indicate that students can demonstrate their understanding by applying their knowledge and skills to solve simple mathematical problems or carry out simple tasks.

Aims of Functional Skills Mathematics – Level 1

- Indicate that students can demonstrate their ability in mathematical skills and their ability to apply these, through appropriate reasoning and decision making, to solve realistic problems of increasing complexity.
- Introduce students to new areas of life and work so that they are exposed to concepts and problems which, while not of immediate concern, may be of value in later life.
- Enable students to develop an appreciation of the role played by mathematics in the world of work and in life generally.

Implementation

The Maths curriculum reflects the needs of our learners by addressing the gaps in prior knowledge highlighted by rigorous baseline assessment.

The Maths curriculum is sequenced in an order which maintains a narrative of building on previous learning. The curriculum although linear in nature makes distinct reference to pedagogical practice and provides opportunity for frequent retrieval practice; progress tasks; check outs; frequent low stakes testing; worked examples; engaging learning that supports encoding; explicit teaching of vocabulary—linking new words/ concepts to old learning using scaffolds and differentiation.

Assessment is used as a tool to inform teachers and leaders where gaps in knowledge may lie. The intent of assessment both formative and summative is to ensure that the ‘spikey

profile' of the vast majority of our students is combatted by offering a second layer of personalised learning.

Impact

Students will show a developed subject knowledge. This will be displayed in their class work, summative and formative assessment. Where appropriate students will be entered into nationally recognised qualifications (e.g. Functional Skills Level 1 Maths).

The maths curriculum should directly address the gaps in students' subject knowledge identified at entry point to Lansdown Park. The long term impact of which should enable students to successfully return to mainstream education at a level comparable to their peers.

Mathematics Functional Skills Overview

Term 1	**Content Area** Topics Covered	**Using Numbers and the Number System – Whole Numbers, fractions and decimals.** Decimals Positive and Negative numbers Order of operations and indices Ration and Proportion Fractions
	Subject Content Ref.	E3.1, E3.2, E3.3, E3.4, E3.5
Term 2	**Content Area** Topics Covered	**Using Numbers and the Number System – Whole Numbers, fractions and decimals.** Decimals Fractions Probability Percentages
	Subject Content Ref.	E3.5, E3.6, E3.7, E3.8, E3.9, E3.10
Term 3	**Content Area** Topics Covered	**Using Common Measures, shape and Space** Decimals Percentages Units of Measures Positive and Negative numbers

	Subject Content Ref.	E3.10, E3.11, E3.12, E3.13, E3.14
Term 4	**Content Area** Topics Covered	**Using Common Measures, shape and Space** Measures Positive and Negative Numbers Area and Perimeter Symmetry, Angles and Bearings 3D shapes, volume and Surface Area
	Subject Content Ref.	E3.14, E3.15, E3.16, E3.17, E3.18, E3.19
Term 5	**Content Area** Topics Covered	**Handling Information and Data** Symmetry angles and Bearings Tables, charts, graphs and averages
	Subject Content Ref.	E3.20, E3.21
Term 6	**Content Area** Topics Covered	**Handling Information and Data** Symmetry angles and Bearings Tables, charts, graphs and averages
	Subject Content Ref.	E3.22, E3.23

KS2 Maths Overview

Term 1	Place Value Addition and Subtraction 2D Shaped Ordinal Numbers
Term 2	Multiplication and Division- Fractions Place Value in addition and subtraction Length and Capacity Place Value- Difference
Term 3	Place Value: Subtraction Multiply: Decimals + Fraction 2D Shapes Add + Subtract Multiply + Divide
Term 4	Place Value Add + Subtract Time: Length Subtraction Multiply + Divide

Term 5	Place Value: Decimals Multiply + Divide Area + Perimeter Fractions + Decimals
Term 6	Money Multiply + Divide Length: Time +-x/ Place Value