

Our Approach to the Mathematics Curriculum

Discover Learn Develop



DISCOVER	LEARN	DEVELOP
INTENT: Curriculum Design, Coverage and Appropriateness (Policy, Culture, Scope)	IMPLEMENTATION: Curriculum delivery, Teaching and Assessment (Pedagogy, Components, Sequencing)	IMPACT: Attainment and Progress (Memory, Assessment, Systems)
<p>Our aim at St.Kew is to deliver an inspiring and engaging mathematics curriculum through high quality teaching, enabling the children here to be numerate, creative, independent, inquisitive, enquiring and confident. We endeavour to ensure that children develop a positive and enthusiastic attitude towards mathematics that will stay with them throughout their lives. We have high academic expectations and aim to provide children with mathematical skills for daily life. Our mastery approach allows children to develop a deep understanding of mathematics. Children will cumulatively build skills, knowledge and understanding via a carefully sequenced curriculum which provides opportunities for children to revisit learning. Long- and medium-term plans will ensure clear progression in key skills in line with national expectations.</p>	<p>Teachers plan sequences of lessons that allow children to progress in small steps enabling us to manage children’s cognitive load. We provide a quality first teach experience in our daily maths lesson and aim for excellence. Well-structured lessons, organised into small steps, provide children with opportunities to: - Become fluent in number facts and methods through varied and frequent practise; - Reason mathematically by following a line of enquiry, conjecturing, justifying or generalising using mathematical language - Problem solve by applying their mathematical skills in increasingly complexity. Teachers use White Rose Maths resources to provide deep questioning which develop children’s understanding and stimulate mathematical thinking. They use in-the-moment assessment techniques e.g. hinge points and modify or reframe learning in response to outcomes. Understanding is developed by providing children with a range of learning experiences using different models and contexts. Learning progresses through concrete, pictorial and abstract representations of new mathematical concepts and children are able to use appropriate manipulatives when they choose.</p>	<p>The high quality, mathematical experiences at St.Kew ACE Academy will produce students who are confident and competent in real life mathematical situations. They will be resilient learners who display a real enjoyment of mathematics. Pupils will be prepared to take on mathematical challenges that stretch, excite, engage, enthuse and allow them to interact with the world they inhabit. They will be prepared for their next stage of their educational journey</p>

LEARNING TO LEARN SKILLS

At St Kew, we are passionate about active learning and believe that children learn and develop best by ‘doing’. Learning is a life-long experience and our ‘learning to learn skills’ help pupils to investigate and experience things, ‘have a go’, concentrate and keep on trying if they encounter difficulties, enjoy achievements, have and develop their own ideas, make links between these ideas, and develop strategies for doing things. This builds a foundation for igniting their curiosity and enthusiasm for learning. In [subject], all Learning to Learn skills are used but the following skills are utilised in particular.

READINESS	RESPONSIBILITY	RELATIONSHIPS	RESILIENCE	RESOURCEFULNESS	REFLECTIVENESS
I ensure I have everything I need.	I am involved and can concentrate.	I can give and receive feedback.	I keep on trying when I face a challenge.	I know which resources are appropriate to support my learning and use these effectively.	I can think of next steps in my work.

Rolling Programme



St Kew Academy Long Term Maths Plan

Year R & 1 Mixed Age Planning

Wk no.	Wk 1	Wk 2	Wk 3	Wk 4	Wk 5	Wk 6	Wk 7	Wk 8	Wk 9	Wk 10	Wk 11	Wk 12	Wk 13	Wk 14
Yr R Autumn Term	Baseline		Baseline	Number 0	Numbers 1 and 2		Number 3 2d shapes	Number 4 2d shapes	Number 5 Measure	Number 6 Measure	Number 7 Measure	Number 8 Assessments/filling in the gaps		

Yr 1 Autumn Term	Place Value (Within 20)	Place Value (Within 20)	Addition and subtraction (within 10)	Addition and subtraction (within 10)	Shape (2d)	Shape (2d)	Measure Length /height	Measure Mass/weight	Measure Capacity/volume	PUMA testing, 'filling in the gaps'.
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Wk no.	Wk 1	Wk 2	Wk 3	Wk 4	Wk 5	Wk 6	Wk 7	Wk 8	Wk 9	Wk 10	Wk 11
Yr R Spring Term	Numbers 9 and 10 Addition and subtraction (within 10)		Addition and subtraction (within 10)	Number 11	Number 12/13 More/less		Number 14/15 3d shape		Number 16/17 Time		Assessment/filing the gaps
Yr 1 Spring Term	Addition and subtraction (within 20)		Addition and subtraction (within 20)	Place Value (up to 50)	Place Value (up to 50)		Shape 3d		Measurement – length - Time		PUMA/assessments/filing the gaps

Wk no.	Wk 1	Wk 2	Wk 3	Wk 4	Wk 5	Wk 6	Wk 7	Wk 8	Wk 9	Wk 10	Wk 11	Wk 12	Wk 13	Wk 14
Yr R Summer Term	Numbers 18/19		Number 20	Number consolidation/intervention	Addition and subtraction More/less	Position	Doubling/halving and sharing		Doubling/halving and sharing		Money	Assessment Filling the gaps/GD	Assessment Filling the gaps/GD	
Yr 1 Summer Term	Place Value (to 100)	Place Value (to 100)	Multiplication and division	Multiplication and division	Position /Direction	Fractions		Fractions		Money	Money	PUMA/assessments/filing the gaps		



St Kew Academy Long Term Maths Plan

Year 2 & 3 Mixed Age Planning

Wk no.	Wk x	Wk 1	Wk 2	Wk 3	Wk 4	Wk 5	Wk 6	Wk 7	Wk 8	Wk 9	Wk 10	Wk 11	Wk 12	Wk 13	Wk 14
Yr 2 Autumn Term	Maths Challenge Assess	Place Value		Addition and Subtraction		Multiplication and division		Fractions		Measurement – length, mass, money		Data Handling	Properties of Shape		
Yr 3 Autumn Term	Maths Challenge Assess	Place Value		Addition and Subtraction- Mental strategies		Multiplication and division		Fractions		Measurement – length - Time		Data Handling	Shape		

Wk no.	Wk 1	Wk 2	Wk 3	Wk 4	Wk 5	Wk 6	Wk 7	Wk 8	Wk 9	Wk 10	Wk 11
Yr 2 Spring Term	Place Value		Addition and Subtraction		Multiplication and division		Fractions		Measurement – length, mass, money		Data Handling
Yr 3 Spring Term	Place Value		Addition and Subtraction- Mental strategies		Multiplication and division		Fractions		Measurement – length - Time		Data Handling

Yr 4 Summer Term	Place Value (including problem solving)	Addition and Subtraction	Multiplication and division	Fractions, Decimals and Percentages	Measurement – length, mass and volume	Data Handling	Geometry – position and movement	Revisit Gap Filling
Yr 5 Summer Term	Place Value (including problem solving)	Addition and Subtraction	Multiplication and division	Fractions, Decimals and Percentages	Measurement –length, mass and volume	Data Handling	Properties of Shape – position and movement	Revisit Gap Filling
Yr 6 Summer Term	Place value (including problem solving and algebra)	Addition and Subtraction	Multiplication and division	Fractions, Decimals, Percentages and ratio	Measurement –length, mass and volume	Data Handling	Properties of Shape – position and movement including algebra	Revisit Gap Filling

Mathematics Skills Progression

Please see the documents for Skills Progression in our 'Calculations Policy'