

HARPFIELD PRIMARY ACADEMY

Creative Education Trust

'Achieving Success Together'



WHAT WE TEACH, WHEN – the overviews support a mastery approach to teaching and learning and aids the delivery of the National Curriculum. The units are sequenced so that pupils, over time, draw connections and make links with their knowledge, concepts and procedures.

The overviews are flexible and can be moved around to match the reality within the classroom. Therefore, the sequence may differ from term to term / year to year dependent on whether cohorts need longer periods of time to study units or if any whole school weaknesses are identified.

We teach using a mastery approach; learning material is presented to the pupils in small steps within each topic and are taught until the vast majority of pupils have achieved the outcomes. Diagnostic and formative assessments inform teachers' judgements and future planning so that teaching is responsive to the pupils' needs. Low-stakes tests are used to analyse strategies used and to address any misconceptions. Progress will focus on pupils 'knowing more and remembering more'.

Our maths curriculum is designed for all pupils; it is ambitious for all and is coherently planned and sequenced. Across a sequence of lessons, pupils will be exposed to the '5 Big Ideas' taken from the NCETM materials: fluency, variation, coherence, representation & structure and mathematical thinking. We use the CPA (concrete, pictorial and abstract) approach to teach and model maths; teachers will determine when to remove these scaffolds. The focus of the teaching will centre around the three aspects of fluency (conceptual and procedural), reasoning (working systematically, proving, best strategy) and problem solving (questions that children don't have a ready-made solution).

In lessons, there will be a balance of teacher instruction and dialogue/discussion; children need to talk about maths to share ideas and discuss strategies. There will also be regular retrieval of previous learning so that pupils can make connections, see patterns, improve automatic recall and can free up their working memory. Recording of learning will be completed in a range of ways: discussion, photographs, maths journals, use of technology (Seesaw).

Our staff receive on-going high-quality CPD to ensure that they understand the subject content and know the best ways in which to teach their pupils. The subject leaders are available for on-going discussions and coaching.

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Year 1

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	Number: Place Value (within 10)					Number: Addition and Subtraction (within 10)					Geometry: Shape	
Spring	Number: Place Value within 20)			Number: Addition and Subtraction (within 20)			Number: Place Value (within 50)		Measurement: Length and Height		Measurement: Volume	
Summer	Number: Multiplication and Division			Number: Fractions		Geometry: Position and Direction	Number: Place Value (within 100)		Measurement: Money		Measurement: Time	

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Year 2

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	Number: Place Value				Number: Addition and Subtraction				Geometry: Shape			
Spring	Measurement: Money	Number: Multiplication and Division					Measurement: Length and Height		Measurement: Time			
Summer	Number: Fractions			Problem Solving		Statistics		Measurement: Position and direction		Measurement: Mass, Capacity and Temperature		

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Year 3

Autumn	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
	Number: Place Value			Number: Addition and Subtraction					Number: Multiplication and Division			
Spring	Number: Multiplication and Division			Measurement: Length and Perimeter			Number: Fractions			Measurement: Mass and Capacity		
Summer	Number: Fractions		Measurement: Money		Measurement: Time			Geometry: Properties of Shape		Statistics		

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Year 4

Autumn	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
	Number: Place Value				Number: Addition and Subtraction			Measurement: Area		Number: Multiplication and Division		
Spring	Number: Multiplication and Division			Measurement: Length and Perimeter		Number: Fractions				Number: Decimals		
Summer	Number: Decimals		Measurement: Money		Measurement: Time			Geometry: Properties of Shape		Statistics	Geometry: Position and Direction	

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Year 5

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	Number: Place Value			Number: Addition and Subtraction		Number: Multiplication and Division			Number: Fractions A			
Spring	Number: Multiplication and Division			Number: Fractions B		Number: Decimals and Percentages			Measurement: Perimeter and Area	Statistics		
Summer	Geometry: Properties of Shape			Geometry: Position and Direction		Number: Decimals			Number: Negative Numbers	Measurement: Converting Units	Measurement : Volume	

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Autumn	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
	Number: Place Value		Number: Addition, Subtraction, Multiplication and Division					Number: Fractions A & B				Measurement : Converting Units
Spring	Number: Ratio		Number: Algebra		Number: Decimals		Number: Fractions, decimals and percentages		Measurement: Perimeter, Area and Volume		Statistics	
Summer	Geometry: Shape			SATS	Geometry: Position and Direction	Consolidation / Targeting & preparation for KS3						