Maths Curriculum

'Inspiring and achieving success for all!'

Upton Cross Academy

Intent

Our aim at Upton Cross 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 endeavor 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 understand 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.

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Implementation

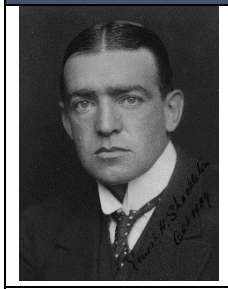
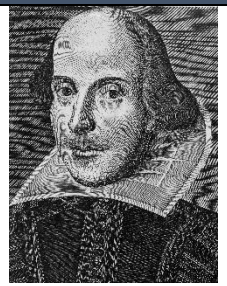
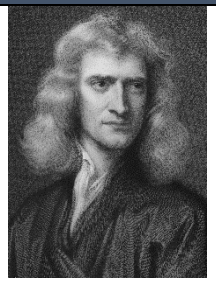
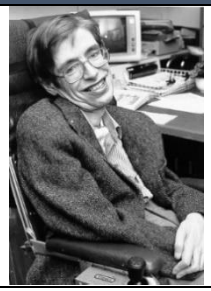
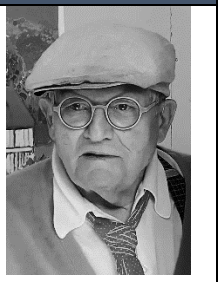
Teachers plan sequences of lessons that allow children to progress in small steps enabling us to manage children's cognitive load.

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 eg 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.

Characteristics of Learning

								
Ernest Shackleton I can find out and explore.	**William Shakespeare** I play with what I know.	**Sir Isaac Newton** I am willing to have a go.	**Beatrix Potter** I am involved and can concentrate.	**Emmeline Pankhurst** I keep on trying.	**Kelly Holmes** I enjoy achieving what I set out to do.	**Steven Hawking** I have my own ideas.	**Isambard Brunel** I make links in my learning.	**David Hockney** I choose ways to do things.

Impact

The high quality, mathematical experiences at Upton Cross 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.

Henwood Long Term Plan

<table>
<tr><th>Week</th><th>1</th><th>2</th><th>3</th><th>4</th><th>5</th><th>6</th><th>7</th><th>8</th><th>9</th><th>10</th><th>11</th><th>12</th><th>13</th></tr>
<tr><td>Autumn</td><td colspan="3">Number-Place Value
Y1: numbers to 20
Y2: Numbers to 100</td><td colspan="5">Addition and Subtraction
Y1: Numbers within 20
Y2: Numbers within 100
(including money)</td><td colspan="2">Y1: Place value to 50
Y2: Multiplication</td><td>Multiplication</td><td>Consolidation</td></tr>
<tr><td>Spring</td><td colspan="2">Y1: Consolidation + Revision
Y2: Division</td><td colspan="2">Y1: Place value to 100
Y2: Statistics</td><td>Length and Height</td><td colspan="3">Geometry
Properties of shape</td><td colspan="3">Fractions</td><td>Consolidation</td><td>Consolidation</td></tr>
<tr><td>Summer</td><td>Position direction</td><td colspan="3">Time</td><td colspan="2">Problem Solving</td><td colspan="2">Y1: Weight and Volume
Y2: Mass, capacity and temperature</td><td colspan="5">Consolidation and investigation</td></tr>
</table>

Plusha Long Term Plan

Week	1	2	3	4	5	6	7	8	9	10	11	12	13
Autu	Place Value			Addition Subtraction				Multiplication Division				Money	Length
Spring	Fractions Decimals				Multiplication Division		Area Perimeter		Time	Capacity		Consolidation	
Summer	Fractions			Area Perimeter		Time	Geometry Position + Direction		Statistics		Time	Consolidation	

Caradon Long Term Plan

Week	1	2	3	4	5	6	7	8	9	10	11	12	13
Autumn	Number- Place Value			Addition Subtraction	Multiplication	Division	Angles	Fractions			Perimeter Area		Consolidation
Spring	Fractions Decimals Percentages				Volume	Position Direction	Converting units		Time	Statics	Ratio	Problem solving	Consolidation
Summer	Algebra	Revision			SATS	Project work: Theme park maths Garden Design							