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The vision for Maths

At Claycots we aim for all pupils to develop a positive and resilient attitude towards mathematics; find joy in their success and understand the opportunities Maths skills can bring.

We aim to provide a broad, balanced, engaging and relevant curriculum that meets the requirements of the National Curriculum along with high-quality teaching using research-based pedagogy to meet all the needs of our learners.

We aim to equip children with the skills of calculation, reasoning and problem solving to provide a solid foundation for the next phrase of their learning and throughout life providing the very best future for every child.



Subject Intent

At Claycots, we are committed to ensuring that all children are challenged through a rich Maths curriculum which is carefully sequenced to build upon prior learning and provides opportunities to prioritise conceptual understanding over rote learning. Our curriculum ensures core number facts are embedded as we know they are the foundation to procedural fluency as well as allowing opportunities to solve increasingly complex problems and reason using mathematical vocabulary.

Our Maths curriculum aims to help our pupils recognise that mathematics is an interconnected subject in which we want them to be able to move fluently between different representations of mathematical ideas as well as applying their maths knowledge to science and other subjects.



Subject Implementation

At Claycots School, we use a mastery approach focusing on representation & structure; mathematical thinking; variation; fluency and coherence. As a school, our mastery approach has developed each year through our involvement in a number of projects run by the BBO Maths Hub. Lessons are planned and sequenced using our bespoke termly overviews and progression documents so that new knowledge and skills build on what has previously been taught. Teachers use White Rose Maths, NCETM and other resources to support their planning.

As part of our approach to developing mathematic fluency, in each lesson, children have times tables or number bond practice to give them opportunities to improve rapid recall of declarative knowledge linked to their stage of learning. Children use 'Times table Rockstar' to engage in weekly battles and challenges to improve their fluency which allows them to practice in an engaging and interactive way at school and at home. In addition to this, in each lesson, children are given the opportunity to revisit prior learning through their 'Quick Maths' starters.

Throughout the school, teachers use pedagogical approaches to promote high standards including explicit modelling and using the gradual release of responsibility approach, which includes focused feedback to ensure accuracy all whilst creating an environment where children know mistakes are an important part of learning.

We use our school calculation policy, to ensure a consistent approach in teaching formal methods and use of the CPA (concrete, pictorial and abstract) approach to help build mental models and provide Mathematical representations.

We ensure that the curriculum is tailored to meet the needs of each child through carefully planned scaffolding and resources. For children who cannot access their aged-related curriculum we have a bespoke pre-key stage curriculum which covers the engagement model when appropriate.

Nursery Long term planning	•	Autuur Numbers Songs, Rhymes Building Puzzles Amounts Week 1-4	Shapre, Spae & Measure Size and weig Week 5-6	ght Rec Car	nbers citing jects rdinality ek 7-10	Shape, Space & Measure Timetables, routines Positional language Week 11-12	
THE SCHOOL	Numbers Counting to Week 1-4	5 5 Finding sh Sorting sh Construct Week 5-6	ng lapes lapes	Shapce, Space & Measure Spatial awareness Positional language Week 7-8	Numbers Rote count to 5 Ordering Week 9-10	Explore size Weight Timetables	of

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Number

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Recognise numerals up to 5 Counting objects Order numbers

Pattern

Environmental patterns Patterns on us Action patterns Make patterns

Week 6-8

Number

Counting Recognising numerals Counting objects and fingers Ordering numbers to 5 One more to 5

Week 9-12

Week 1-5



Year 1 Long term planning

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Number

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Week 1-3

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Year 2 . Number Measurement Number Number Consolidation Week 12 Multiplication & Money Place Value & Addition divison Subtraction Long Week 9-10 Week 11 Week 1-3 Week 4-8 term planning: Autumn LOTS SC. Statistics Geometry Number Number Statistics Properties Fractions Multiplication & of shape divison Week 5-6 Week 10-12 Week 7-9 Week 1-4 foring Measurement Measurement Measurement Geometry Consolidation Week 12 Length & Consolidation & Time Mass, capacity Position & problem solving Week 5-6 height & temperature direction Week 1-2 Week 7-8 Week 9-11 Week 3-4 Summer .



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Long term planning



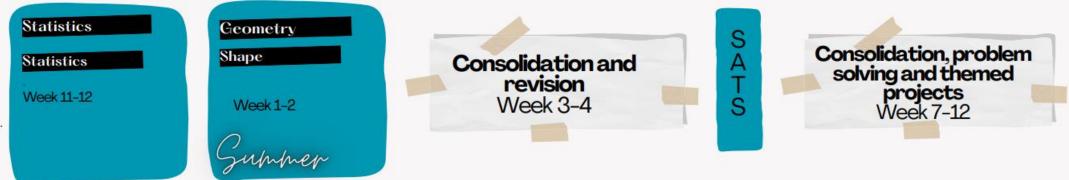
Number Place Value Week 1-3	Number Addition & Subtraction Week 4-8	Number Multiplication & divison Week 9-12	Number Nultiplication & divison Week 1-3 Garage
Measurement Length & perimeter Week 4-6	Number Fractions Week 7-9	Measurement Mass & capacity Week 10-12	Number Fractions Week 1-2 Gummep
• Measurement Money Week 3-4	Measurement Time Week 5-7	<mark>Geometry</mark> Shape Week 8-9	Statistics Statistics Week 11













How we measure progress

At Claycots we use end of unit tests, times tables and termly assessments to help teachers gather a deeper understanding of their pupil's existing and developing knowledge and skills. However, we are aware that testing can lead to judgeing performance rather than learning therefore teachers also use formative assessment daily in their lessons to measure learning over time.

Using this wide range of data, we measure pupil progress on a termly basis and at the end of the year, the expectation is that children achieve Age Related Expectations (ARE) for their year group. Some children may have progressed further and achieve Greater Depth (GD). Those pupils who have been identified as having gaps in their knowledge receive appropriate support and intervention, inside and outside of the usual classroom Maths lesson.

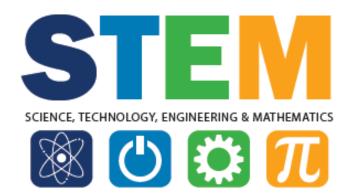
By the end of Year 6, children will have developed a range of efficient skills that can be used to calculate effectively, they will be fluent in the fundamentals of Maths with a conceptual understanding and have the ability to recall and apply key facts accurately.



Visits and experiences



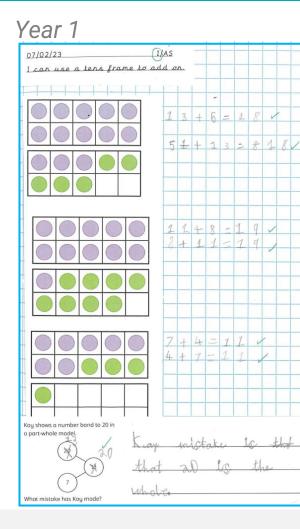
Educational Financial lessons (EYFS, KS1 & KS2)



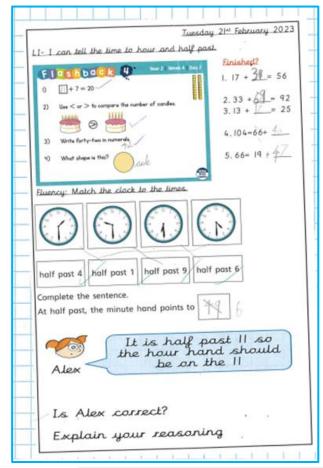
STEM Lego Workshop (Key Stage 2)



Examples of learning KS1



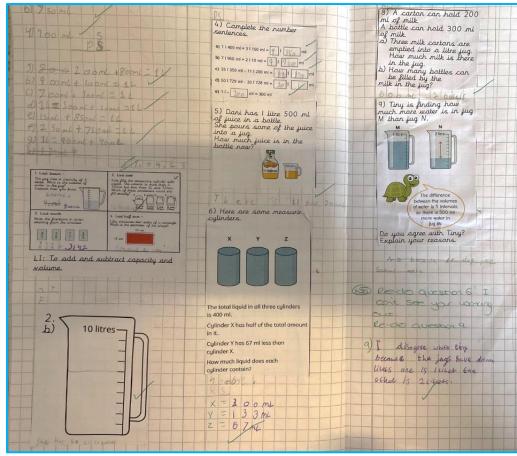
Year 2



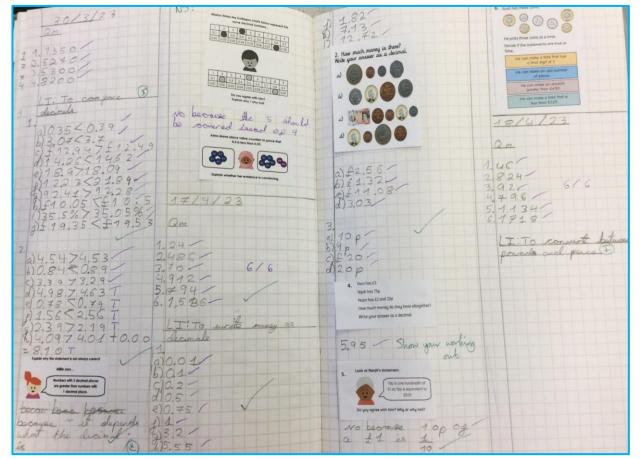


Examples of learning Lower KS2

Year 3



Year 4



Examples of learning Upper KS2

Year 5

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1 3 9 52	I Guere Ry I weeks and 5 days .	Alex finishes the race in 2 minutes and 82 seconds.	82 seconds = 1 min 22
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Practical learning!







