

What does it look like at HT in Year 6?

5 x 50 minute lessons per week (L1 every day). Teacher 'Assessment for Learning' interventions. TA 'Assessment for Learning' interventions. 2 tasks of differentiated homework per week.

As a result of the changes in the curriculum, children are all working towards the same targets. This focuses on a <u>depth of understanding</u> rather than the previous *breadth* of understanding.

We have 3 sets to help best support this:

1 top set

2 parallel sets

We will be testing the children Thursday/Friday to make final decisions on the best group for them to start Year 6 in.

The Curriculum:

	T		
Autumn 1	Whole and part numbers		
	Calculations and algebra		
	Larger numbers		
Autumn 2	2D and 3D shapes and nets		
	Numbers in everyday life		
Spring 1	Solving problems		
	Fractions and algebra		
Spring 2	Using what you know		
	Shapes and co-ordinates		
Summer 1	Focus on algebra		
	Solving more problems		
	Fractions, equivalents and algebra		
Summer 2	Fair shares		
	Nets, angles and co-ordinates		

The curriculum for Year 6 maths is taught through 14 different units.

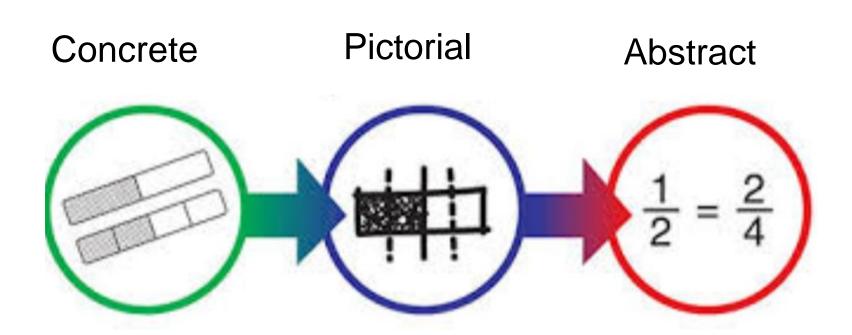
At the end of each unit, the children will be tested on what they have been taught.

Each term, they will also be tested on SATs style tests to best prepare them.

Gaps from tests will be picked up through teacher AFL, TA AFL and through targeted interventions.

Year 6 Autumn Term				
Curriculum Target	In lesson (a, pa, pa)	APP test 2 weeks after (a, pa, pa)	Booster/AFL (date and initial)	
Unit 1 – whole and part numbers				
Identify the value of each digit in numbers given to two decimal places,				
and multiply and divide numbers by 10 and 100 giving answers up to two				
decimal places.				
Solve problems that involve number and place value.				1
Use, read, write and convert between standard units, converting				1
measurements of mass from a smaller unit of measure to a larger unit,				
and vice versa, using decimal notation up to two decimal places.				_9
Read, write, order and compare whole numbers to at least 5 000 000.				weeks
Round any whole number to a required degree of accuracy				6
Compare and order fractions.				1
Use common factors to simplify fractions; use common multiples to				
express fractions in the same denomination.				
Solve number and practical problems that involve fractions.				1
Recall and use equivalences between simple fractions, decimals and				
percentages, including in different contexts.				
Unit 2 – calculations and algebra				
Perform mental calculations, including with mixed operations and large				
numbers.				
Solve addition and subtraction multi-step problems in contexts, deciding				1
which operations and methods to use and why.				
Solve problems involving addition, subtraction; use estimation to check				
answers to calculations and determine, in the context of a problem, an				
appropriate degree of accuracy				
Interpret line graphs and use these to solve problems				weeks
Use knowledge of the order of operations to carry out calculations				6
involving the four operations				
Solve problems involving the calculation and conversion of units of				1
measure, using decimal notation to three decimal places where				
appropriate				
Use simple formulae				
Find pairs of numbers that satisfy an equation with two unknowns.]
Autumn 1 Half Termly Test	Raw score	:		

Teach through the style of...

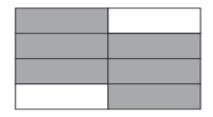


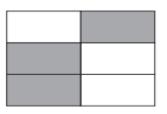
Mastery in maths

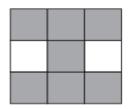
What does it involve?

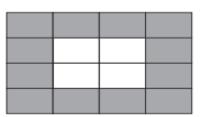
Geep and sustainable learning - CPA method helps embed this. ability to build on something already learnt. ability to reason about a concept. ability to make connections to other concepts. ability to show the same problem in different ways.

Tick two shapes that have $\frac{3}{4}$ shaded.









1 mark

A cat sleeps for **12 hours** each day.

50% of its life is spent asleep.



Write the missing percentage.

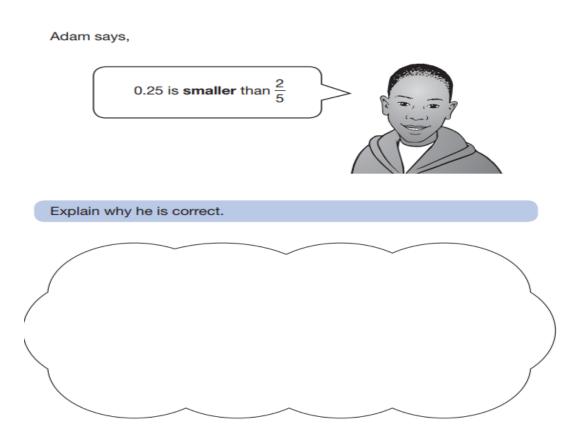
A koala sleeps for 18 hours each day.



of its life is spent asleep.



1 mark



9

Chen uses these digit cards.

5 6

She makes a 2-digit number and a 1-digit number.

She multiplies them together.

Her answer is a multiple of 10

What could Chen's multiplication be?







Adam buys 6 bags of white balloons.

Chen buys 3 bags of red balloons.

Adam says,

'I have four times as many balloons as Chen.'

Explain why Adam is correct.

SATS

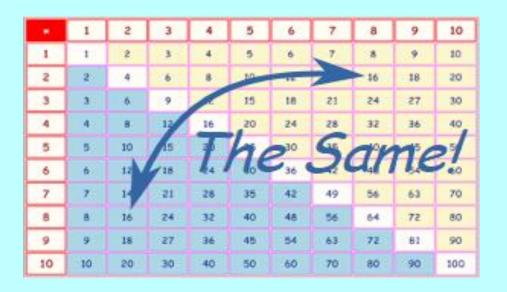
Begin on Monday 13th May 2019

3 papers - usually the Wednesday and Thursday

- 1. Arithmetic 30 minutes
- 2. Reasoning 40 minutes
- 3. Reasoning 40 minutes

How can you help?

1. Ensure children know all times tables up to 12 x 12 and can recall them at speed, out of order and know the inverse.



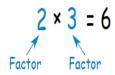
If a child is not able to recall number and multiplication facts, they will find it difficult to solve problems.

Make sure they are using Times Table Rock Stars

2. Practice properties of numbers e.g. factors and multiples and prime numbers.

Factors

"Factors" are the numbers we can **multiply together** to get another number:



2 and 3 are factors of 6

A number can have many factors.

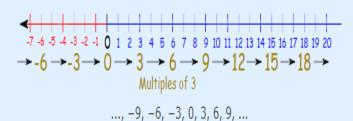
Example: 12

- 3 × 4 = 12, so 3 and 4 are factors of 12
- Also 2 × 6 = 12, so 2 and 6 are also factors of 12,
- And $1 \times 12 = 12$, so **1** and **12** are factors of 12 as well.

Multiples

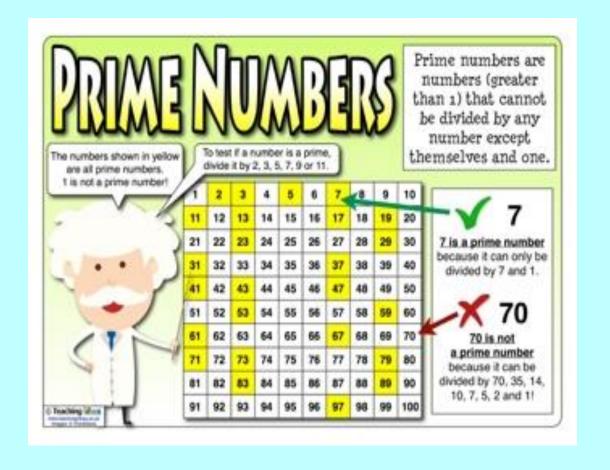
A multiple is the result of **multiplying** a number **by an integer** (not a fraction).

Example: Multiples of 3:



Example: 15 is a multiple of 3, as $3 \times 5 = 15$

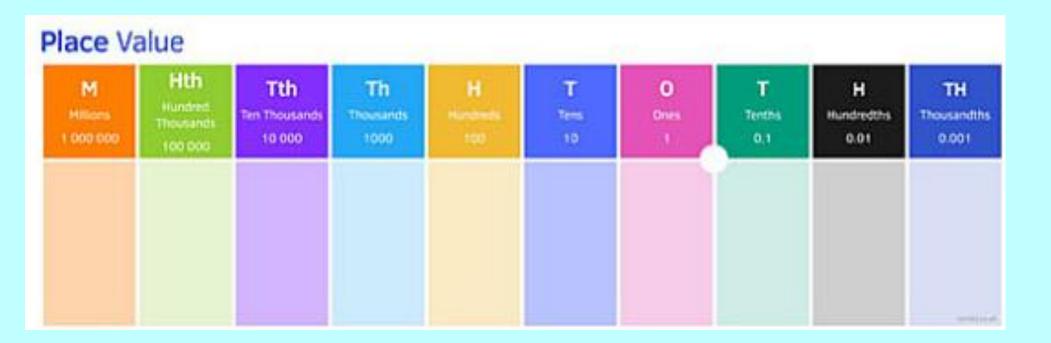
Example: 16 is **not** a multiple of 3



3. Ensure they are secure in all 4 written methods.

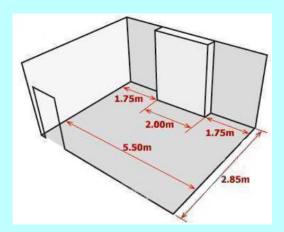
Column Addition
Column Subtraction
Column multiplication
Long Division (chunking)

4. Multiplying and dividing by 10, 100 and 1000 - easy to make errors.



5. Encourage them to see maths is EVERYWHERE.



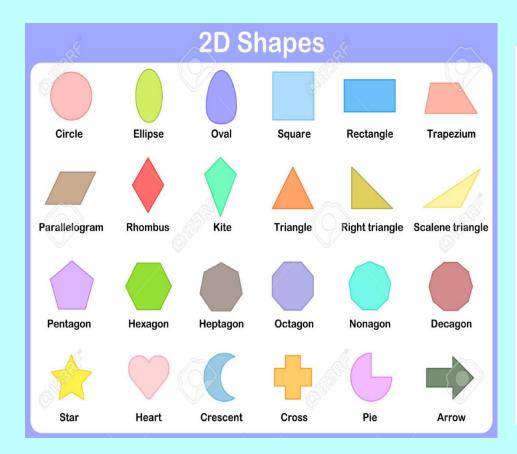


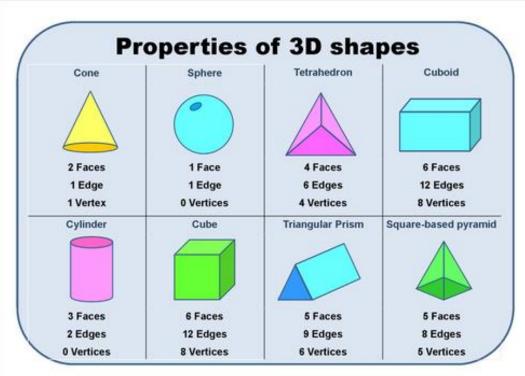






6. Ensure they have a good understanding of 2d and 3d shapes and their features e.g. corners (vertices), sides and edges.





7. Encourage and support them with their homework and let us know if we can help.

++-	Homework								
П		Task 1	Task 2						
		Hand out: Monday	Hand out: Monday						
	Maths	Not to be handed in.	Due in: Thursday						
		Response: Adult to sign in diary to	Response: Complete task in homework						
		confirm completion.	book and hand in.						
		Hand out: Thursday	Hand out: Thursday						
	English	Not to be handed in	Due in: Monday						
	enghon.	Response: Adult to sign in diary to confirm completion.	Response: Complete task in homework book and hand in.						
	Topic	Given out half termly. D	ue date given with project.						

Any questions?