

GIM 20 Space Firework Rocket fre e Activity Which shapes can you see?

> Pupils are exposed to a variety of Maths resources/activities during free time

I can south back to subtract less and next steps: Low south act steps: Low south act steps: Low south act steps: Low south act steps: Low south a conjust of change of the stepsificating annuy more than not point a conjust of changes to the stepsificating annuy more than not point a conjust of changes to the stepsificating annuy more than not point a conjust of changes to the stepsificating annual more than not point a conjust of changes to the stepsificating and and the stepsificating to the stepsification of the stepsification and the stepsification and the stepsification constants back to subtract, when asked to the 7-8 than the south the spectral here to a flow a conjust of the spectral theory of the stepsification and the south the spectral theory of the stepsification of the stepsification and the spectral theory of th

Objective Focus: We are learning to take

Date: WB 7.12.20

Name: Haau

Finding out and exploring Playing with what they kno Being willing to have a go

Foundation books showcase both group work and 'free work' which children select and work independently. Teacher's challenge pupils in each lesson and ask them to explain their reasoning.



Year 1

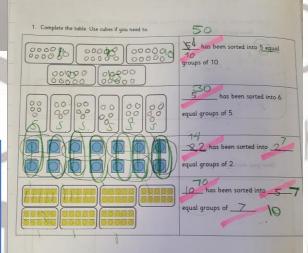
Grouping Learning Journey

Practical – Using cubes to explore making equal groups.
 Pictorial – Using pictures to explore grouping.
 Fluency – Practising pictorial and written questions.
 Reasoning and problem solving – Using grouping to solve problems.

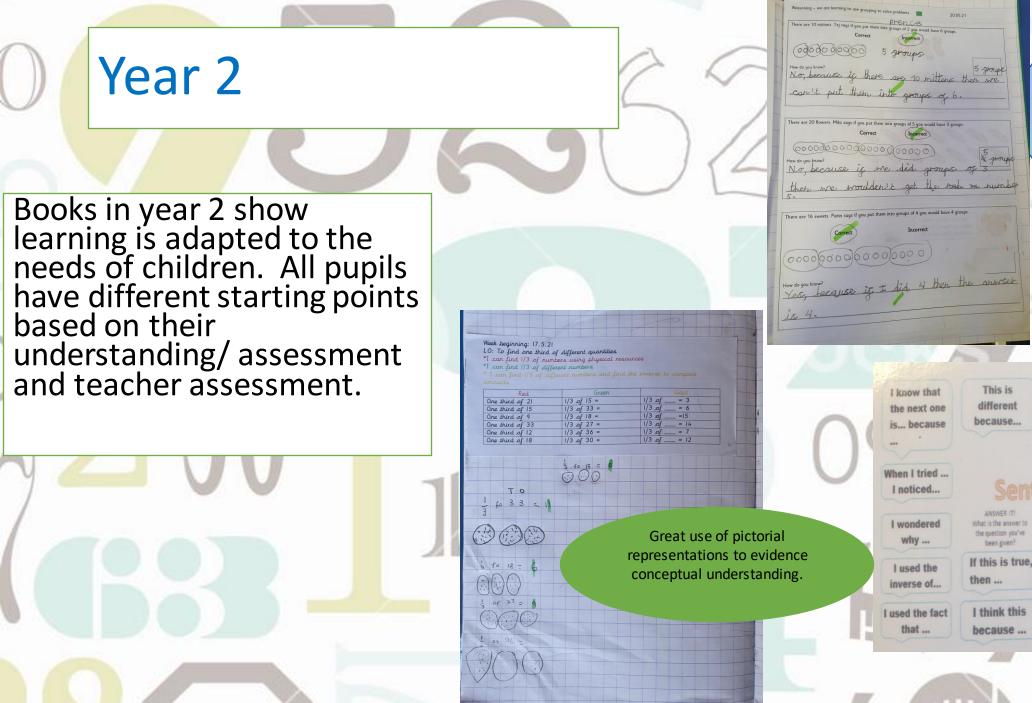
Learning journeys incorporate the practical, pictorial, fluency and reasoning element

Books in year 1 showcase how practical resources and pictorial representations are used to reinforce learning and ensure that the children have a good conceptual understanding.

Errors or misconceptions are quickly picked up and addressed to ensure children are secure with their learning. Children are learning to group objects into equal groups using cubes.







This is a great example of the reasoning questions which children are exposed to and also how they are using pictorial representations to help them answer them

All year 2 pupils are given sentence starters to help them support them when answering reasoning questions

This can't work because

Sentence starter

 PROVE IT
 EXPLAIN IT

 Show how you know that is the answer with pictures, diagrams, calculations or in another way.
 Write some sentences that make it clear why you came to your answer

 I checked by

 The pattern looks like ...
 I decided to bec.stise...

systematic because I... I already know... so...

I started by...

All the

numbers

begin with

Because...

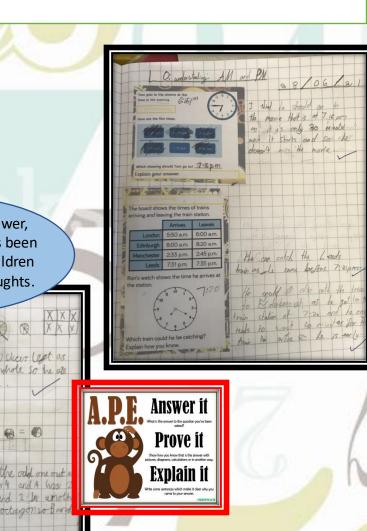
hen I think

I was

There are a fantastic range of reasoning and problem solving questions across all classes. This allows the children to apply the skills that they have learnt.

Evidence of APE (answer, prove and explain) has been used to encourage children to articulate their thoughts.

· OI Reasonin Teddy says A DE Answer H I have one pizza cut into 6 equal pieces. I have eater f of the pizza is whole so he at loes Teddy have any pizza left? xplain your answer whole Which pair of shapes is the odd one X 1 one and 2 in ano Here octangensio fur Ci unea whole and Ausrila whole



Now try this Blue challage! ett uses a bar model and base 10 to find 2 of 35 DE 63 = 42 2 HB 21 21 a) = at 63 = 42 1 b) = of 48 = 36 K ** Q1- Fluency 0 3 of 92 = 69 V 112 'Now try this' moves children onto more difficult problems!

Year 3

5

3

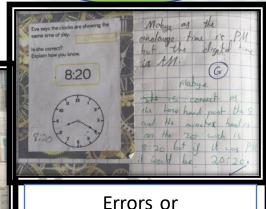
minutes past 7

Make

3 mins past

6 minutes past 24 minutes past 11 iels to complete the equivalent fract

26



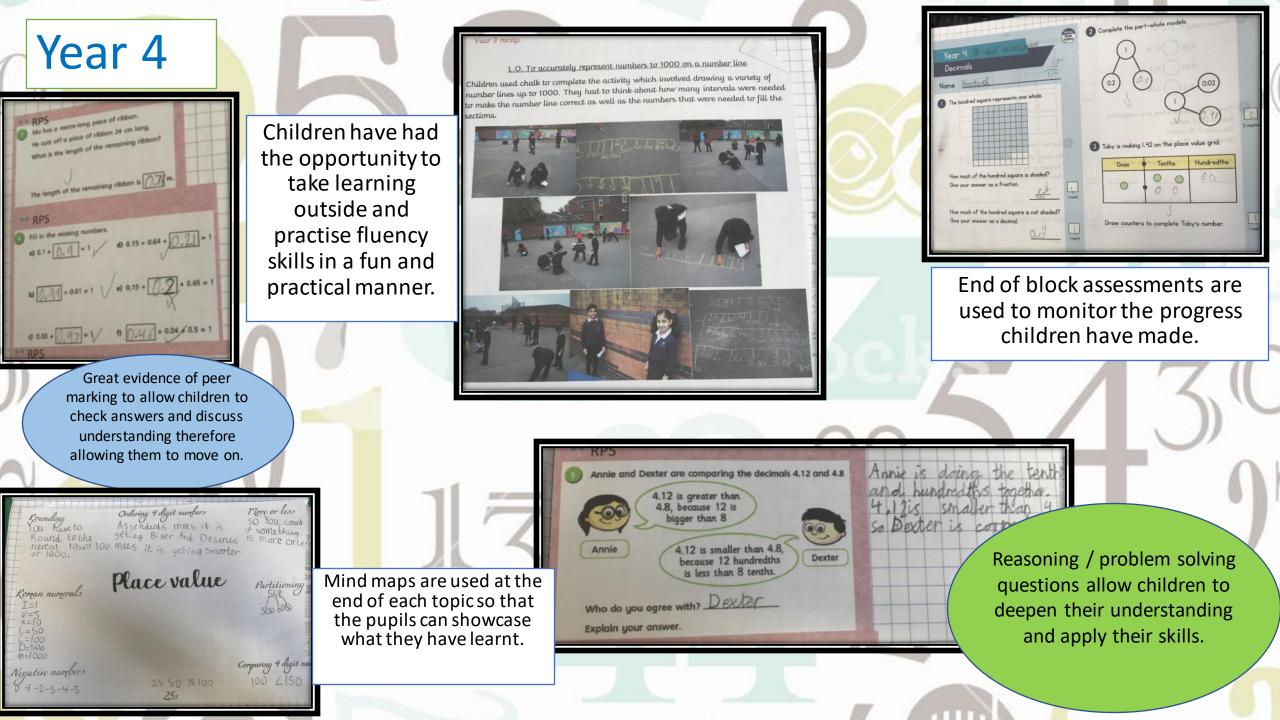
misconceptions are

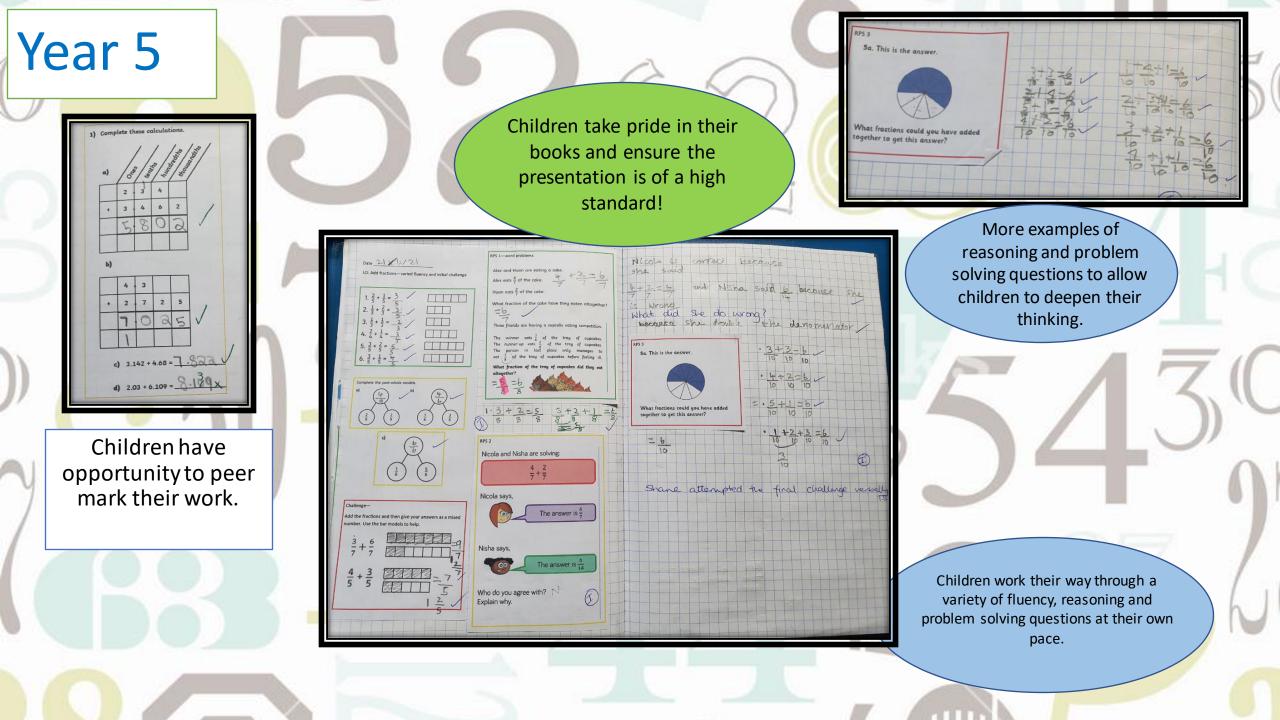
addressed to ensure

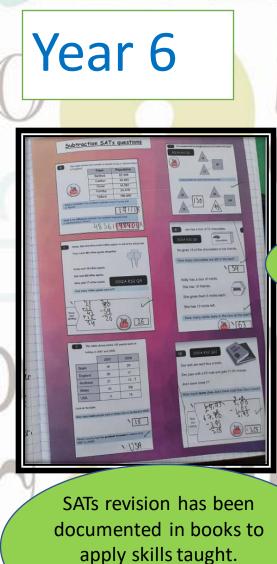
children are secure with

their learning.

Pupils have the opportunity to use practical/visual resources to complete their work





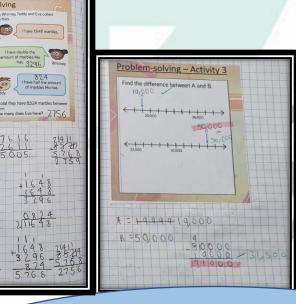


catch	up	Now cannot have been and then add them. $\frac{3}{14} + \frac{2}{7} = \frac{1}{14} = \frac{1}{2} \frac{1}{2}$ $\frac{4}{12} + \frac{1}{4} = \frac{1}{12} \frac{1}{2}$	27=
		+ 10 18 2	0
		learning revision ninimise gaps ir ng.	
1/1			
to chc when inde approp them	oose thei they ha pendenc riately. T selves as	he autonom ir questions ve built the ce to select hey challeng s they have e questions.	je
	ucincy ,	ubtraction Activity 1	
328 - 152 =	5298 - 1723 =	g the column method:	
800 - 567=	7000 - 4941 =	619179 - 376864 = 800000 - 658712 = /	
512 - 358=	6135- 2825 =	235742 - 456979 =	
 700 - 461	9000 - 3566 =	900000- 874325 =	
612 - 475 =	5143 - 3897 =	716361 - 581932 =	
612 - 475 = 524 - 291 =	5143 - 3897 = 8000 - 4824 =	716361 - 581932 = /	
		~	and a second

March 2021

Home learning

Evidence of varied fluency to allow children to practise a skill in different forms. This has been peer marked to allow collaborative working with peers.



A plane is flying at 2485 het. There were started by an or 2485 het. There were started by an	LO: To be able to subtract numerical $\frac{1}{29}$ $\frac{1}{$	ntus using the column 3 7 8 8 6 - 2 2 8 1 9 - 4 8 8 7
- <u>201006</u> <u>249000</u> - <u>164418</u> <u>186684</u>	A plane is fiving at 23.455 feet. During the flight the plane descends 8.895 feet What height is the plane new flyingat? 2.056 Tommy earns £37,506 pounds ayear. Dora earns £22,819 ayear. How much more money does Tommy earn thar There are 83,065 fans at a football match. 45,927 fans are male. How many fars are fema at the plane and the plane at the plane	A manufacturing company has annual sels of £81 602 and expenses of £164918. How much profit is made? \$ £686684 in ten years the population of a city increases from 457485 to 537240. By how much has the population increased? 74755
	4 8 0 0 0 0 - <u>20 1 8 0 6</u> <u>24 4 0 0 0</u> A three bedroom hause costs 5 2 4 9 0 0 0. I used column method	- <u>164918</u> 186684
		1

Pink is used to highlight errors/misconceptions which have then been corrected in green.

There are a range of investigation problem solving questions which allow pupils to systematically explore the problem and provide mathematical justifications. This allows them to build stronger conceptual understanding of connections between mathematical ideas.

Daily calculations		and if I have	We go through the answers as a class 8.6.2 and if I have anything wrong, my		<u>'1</u>	- hello Juesday	Choose which colour you want to start from		
	/			teacher show	vs us how to answer it.'	Br	ronze	Silver	Gold
						1/10 -	+ 2/10 =	2/4+ 2/4 =	4/6 =
	alculation	s has ma	any benefits	ior the		2/10 -	+ 2/10 =	1/3 + 4/3=	2/6 >
childre		3 1103 1110	my benefits		154	3/10	+ 1/10=	5/6 + 3/6=	5/7 <
		• I.,				7/10	+ 1/10=	4/8+ 3/8=	8/10 >
1. En	isures a sn	nooth ar	id ready for	r learning' attitu	de	4/10	+ 2/20=	5/9+ 3/9=	7/7+ 2/7 >
	the start o	•	•			5/10+	+ 5/10 =	3/5 + 2/5=	4/6 - 3/6 <
2. Ch	ildren hav	ve <u>the</u> or	portunity to	o practise their ate what they hav					5b. Rosie is thinking of a fraction.
tiu	iency skills	3. This ca	in consolida	te what they hav	ve				The numerator is smaller than 6 but larger than 2.
	arnt in cias	SS Or allo	Ws fluency	to be done éarlie the reasoning an	er,				The denominator is half of 20.
l su	oblem solv	255011 ca wing	n iocus on c	.ne reasoning an	a l				What could Rosie's fraction be? Write three possibilities in words.
יא	UDIEITI 301	ving.			-	F			
							ons get progres		
Grab your orange books and start the daily calculations. nes table facts Focused work (silver) Understanding check Problem solving challenge:		0 0			(difficult in order t		allenge the	
		Answers a	Answers are marked as a		pupils.				
		orv	class. This allows			There	is a problem at	t the end to	
(bronze)		(Gold)	True or false?		ities to tackle			v the pupils to b	
7 I.	IO x 3 x 8 I.		Two rectangles with the same perimeter		nodel methods			ite their learnin	
3 2.	.6x5x9 2	2. 7,346 - 827	can have different areas.		uss effective			fluency skills to	• • • •
x 70 3. 4 x 10 x 7 3. 248 x 7 Explain your answer.		methods to use.				Idency skins to			
) x 70 3.									•

Times tables Rockstars

All Children across Abbey took part in a cross trust TT Rockstars competition. Teachers also encouraged the pupils to set up some competitions within year group so they can get used to how the competitions work. ' It is fun because you can learn your timetable in a fun way and time yourself on how quick you can answer the tables.'

THE TMET BATTLE OF THE PRIMARIES

> Where? On TT Rockstars

Play each day to see if your school can be TOP OF THE ROCKS!

	BATTLE OF HE PRIMARIES	Finishes , in 1 day			
<	ITOIIMENT School	Results	class >		
	School average / user	School	score		
osi	tion	School ave	rage / user		
1	North Mead Prin	nary Ac	1,684		
2	Thurnby Lodge F	Primary	1,590		
3	Rowlatts Hill Prin	mary A	1,476		
4	Kestrel Mead Pri	imary A	1,090		
5	Abbey Primary C	ommunit	837	ľ	
6	Knighton Fields	Primary A	823	1	
			705		