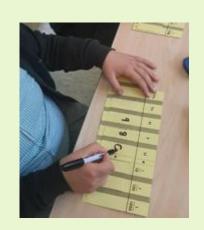
Maths at Saint Alban and Saint Stephen Catholic Primary School & Nursery

Meeting for KS2 Parents 26th April 2024





Our aim at Saint Alban and Saint Stephen Catholic Primary School and Nursery is that children will learn to be confident in exploring and using a wide range of maths skills that they can build on in their future learning and use in their adult lives.

The purpose of Maths is the pursuit for truth, and the thinking skills developed through the Maths Curriculum should inspire learners to be innovative, creative, critical and analytical learners. Enjoying the beauty of Maths enables learners to engage with the transcendent dimensions of life. It will inspire them to become the pioneers and inventors of today and the future.

How children learn maths.

- Using practical mathematical resources
- Exploring and investigating
- Using Talk for Learning
- Representing learning using pictures and then more abstract methods



Herts for Learning Essential Maths Scheme

- Across both sites to ensure consistency and progression.
- Uses sequences of lessons for each year group.
- ► High emphasis on using mathematical equipment for practical learning.
- Problem solving skills embedded throughout.
- ► Children learn to record using pictorial representations and more abstract recording e.g. number sentences.
- ► Talk for learning also important speaking frames support children's use of mathematical language.

Key Stage 2 Working Walls









Speaking frames

Speaking Frame - Comparing and Ordering

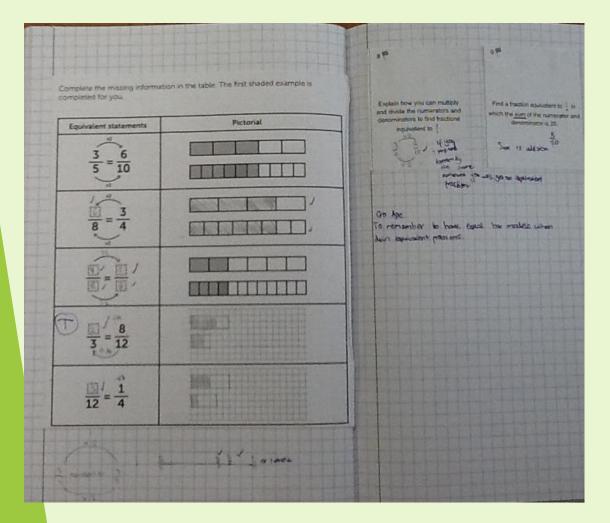
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is greater than/smaller than ______ because there are an equal/greater/smaller number of thousands.

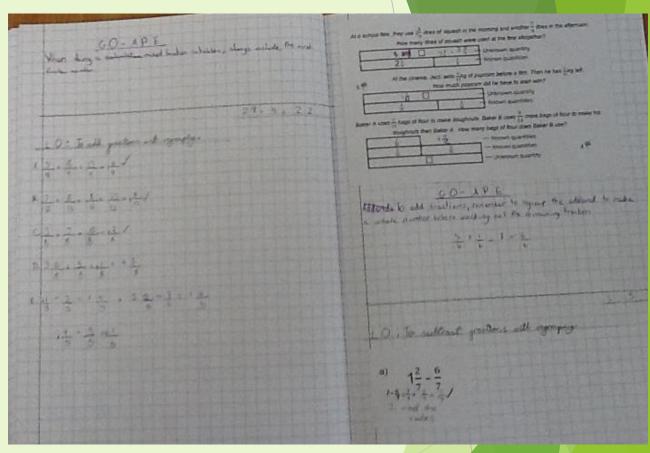
an equal/greater/smaller number of hundreds.

an equal/greater/smaller number of hundreds and equal/greater/smaller number of ones.
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KS2 Purple Pen and Go APE

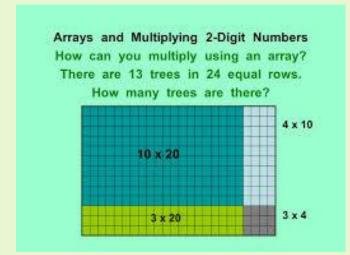
- Marking our work
- ► Go APE (Answer, Prove, Explain)



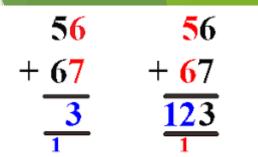


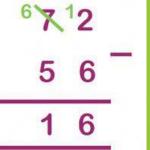
Key Stage 2

- More formal methods of recording, such as column method for addition and subtraction.
- ► Place value Millions, hundred thousands, ten thousands, thousands, hundreds, tens and ones.
- Develop fluent recall of times tables.
- Fractions, decimals and percentages including calculations.
- ► Multiplication and division of 2 digit numbers.







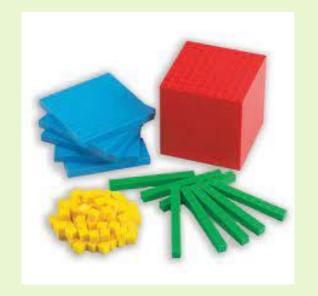




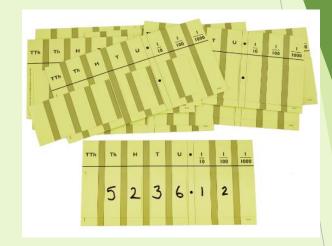
Place Value

- > Year 3 hundreds, begin decimals
- > Year 4 thousands
- > Year 5 ten thousands and hundred thousands
- > Year 6 hundred thousands and millions

Base Ten



Counting stick



Place value sliders



Addition and Subtraction

- Mental strategies e.g. Think 10, Think 100, regrouping, rebalancing
- > Formal written strategies.

Think 10

Rebalancing for addition

Think 100

e.g.
$$430 + 75$$

= $500 + 5$

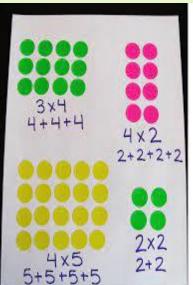
Rebalancing for subtraction (equal difference)

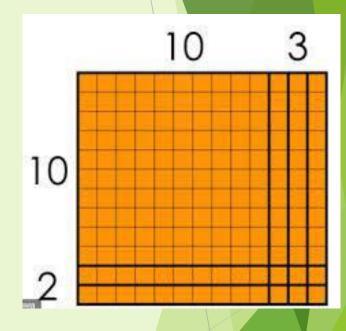
Multiplication and Division

- ➤ At the end of Year 4 children should have quick mental recall of **all** times tables up to 12x
- ➤ Throughout KS2 they will develop strategies for multiplying 2 digit numbers

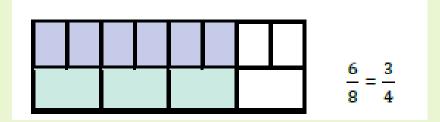
They will also learn to do long multiplication

and long division.

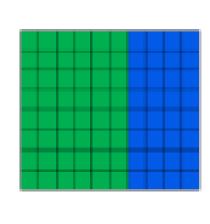




Fractions, percentages and decimals



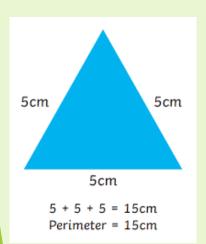
Percent	Decimal				
006.%	0.06				
078.%	0.78				
135.%	1.35				
012.5%	0.125				

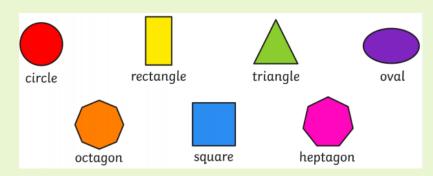


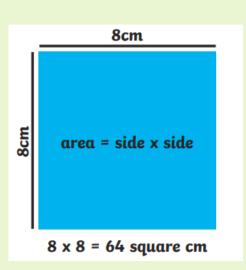
$$\frac{60}{100} = \frac{6}{10} = \frac{3}{5} = 0.6$$

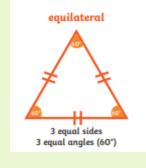
Shape

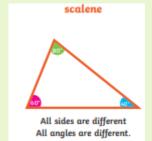
- > Names and properties of 2D and 3D shapes.
- > Perimeter
- > Area
- ➤ Angles

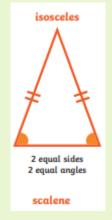










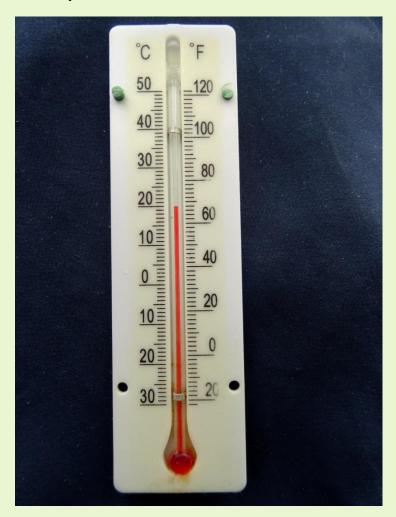


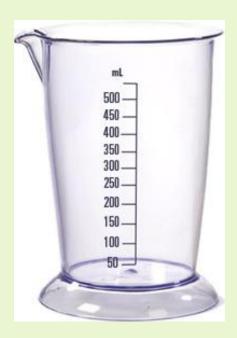


6 equal faces 8 vertices 12 edges	Cube				
6 faces 8 vertices 12 edges	Cuboid				
1 face 0 vertices 0 edges	Sphere				
3 faces- 2 flat, 1 curved 0 vertices 2 edges	Cylinder				
2 faces- 1 flat, 1 curved 1 vertex 1 edge	Cone				
5 faces 5 vertices 8 edges	Square based pyramid				
5 faces 6 vertices 9 edges	Triangular prism				
4 faces 4 vertices 6 edges	Tetrahedron				

Measures

temperature





capacity

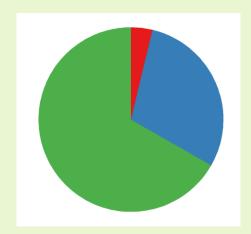


time

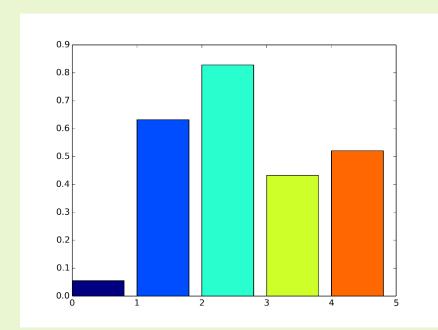
weighing

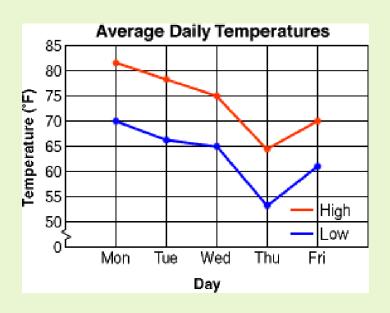


Data handling



Pie charts





Line graphs

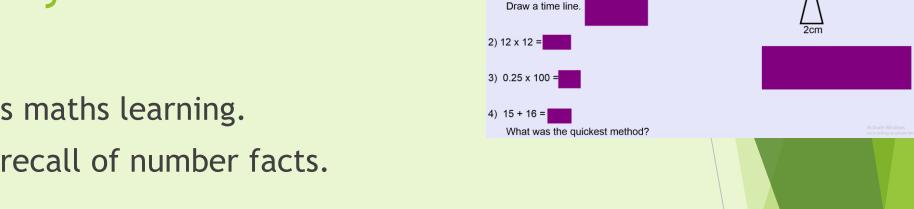
NORWICH	Dep	0500	0520	0530	0600	0630	0655	0710	0755	0805	0835	0905
Diss	Dep	0518		0547	0618	0647	0713	0728		0823	0852	0922
Stowmarket	Dep	0531		0558	0630	0658	0725	0740		0835	0903	0933
IPSWICH	Arr	0541	0553	0610	0641	0709	0736	0751	0828	0846	0913	0944
	Dep	0543	0553	0612	0642	0710	0737	0752	0830	0847	0915	0945
Manningtree	Dep	0553		0620	0652	0721		0802			0925	
COLCHESTER	Dep	0604	0610	0632	0704	0732		0812		0906	0935	1003
Chelmsford	Dep											1020
LIVERPOOL	Arr	0653	070	0721	0756	0826	0848	0903	0933	0955	1025	1054
STREET												

timetables

Bar charts

Maths Fluency

- ▶ Daily 5
- Revisit previous maths learning.
- Develop quick recall of number facts.
- ▶ Times tables.



15.1.24 Daily 5

1) Calculate the duration between 08:55 and 09:32.





5) What is the perimeter of this

Home Learning

- ► Maths choices on Home Learning Grid
- Weekly homework My Maths (completing tasks set by teachers)
- ► Times Tables Rock Stars and Numbots



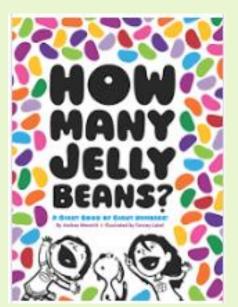


Making Maths Fun!

- Maths Week
- ► NSPCC Number Day
- Children dressed up with numbers
- Art activities with maths theme
- Maths stories
- Outdoor learning.

















Further ways to support your child at home.

- Cooking uses variety of Maths skills in real life contexts such as weighing, reading a scale and time.
- ► Playing board games dice reinforce subitising skills, moving counters 1:1 correspondence, snakes and ladders develops number recognition, quick recall addition and subtraction facts.
- Card games and dominoes.
- ▶ Looking at clocks at home analogue and digital.
- Timetables
- Money playing shopping games and giving children opportunities to use money in real life situations.
- ▶ BBC Bitesize and Herts for Learning games (YouTube).

