Take a seat and get started...

Find at least one person to play with.

Take it in turns to throw a 6 sided dice.

Cover the corresponding number on the board that is shown on the dice face. (1 dot cover the number 1)

Who can be the first to cover all their numbers.

How could you adapt it for your child?

1	2	3	6	5
4	1	2	3	6
5	4	3	2	1 LEARNING FRIDS







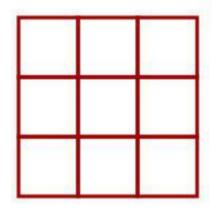
Maths Addition and Subtraction

Wednesday 10th October 2018



Warm up

Dotty 6



Consider what maths skills you are using when playing this game.

How could you adapt the game?



Aims

- To get an insight into how Maths is taught at St Peter's.
- To become more familiar with the methods used to teach calculations.
- To take away some ideas to support your child at home.





Maths at St Peter's





Y1	Y2	Y3
Addition and	Addition and subtraction	Addition and subtraction /
subtraction	Pupils should be taught to:	1
B 3 1 111	l '	Pupils should be taught to:
Pupils should be taught to:	 solve problems with addition 	a add and subtract
laught to.	and subtraction:	add and subtract t numbers mentally.
 read, write and 	 using concrete objects and 	including:
interpret	pictorial representations.	- a three-digit number
mathematical	including those involving	and ones
statements	numbers, quantities and	- a three-digit number
involving addition	measures	and tens
(+), subtraction (-)	 applying their increasing 	 a three-digit number
and equals (=)	knowledge of mental and written methods	and hundreds
signs		
	 recall and use addition and 	add and subtract
 represent and 	subtraction facts to 20	numbers with up to
use number bonds and related	fluently, and derive and use	three digits, using formal written methods
subtraction facts	related facts up to 100	of columnar addition
within 20	 add and subtract numbers 	and subtraction
***************************************	using concrete objects,	dire Sabbacoron
 add and subtract 	pictorial representations, and	estimate the answer to a
one-digit and two-	mentally, including:	calculation and use
digit numbers to	 a two-digit number and ones a two-digit number and tens 	inverse operations to
20, including zero	two-digit number and tens two two-digit numbers	check answers
	- adding three one-digit	
 solve one-step 	numbers	 solve problems,
problems that		including missing
involve addition and subtraction.	 show that addition of two numbers can be done in any 	number problems, using number facts.
using concrete	order (commutative) and	place value, and more
objects and	subtraction of one number	complex addition and
pictorial	from another cannot	subtraction
representations.		
and missing	 recognise and use the inverse 	
number problems	relationship between addition and subtraction and use this	
such as 7 = □ - 9	to check calculations and	
30011037 2 0	w check carculations allu	

missing number problems



Number Sense

Children need to understand our number system, starting with counting numbers, building an understanding of how our numbers work and fit together. This includes exploring place value and comparing and

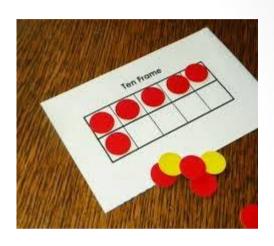
ordering numbers then applying this understanding in different contexts.

Subitising

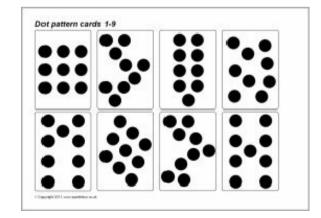
Start with ...







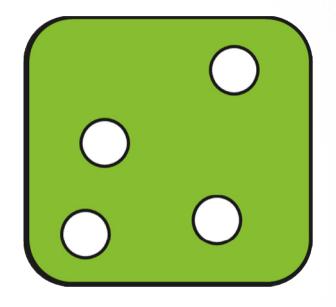
Move on to ...





Subitising

Roll!



How many dots do you see?

How do you know how many dots there are?

Did anyone work out the number of dots differently?

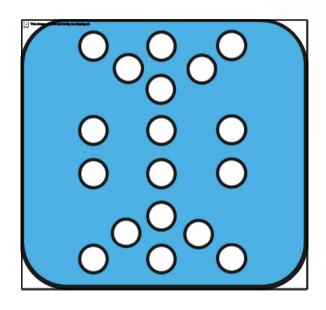


Roll!

How many dots do you see?

How do you know how many dots there are?

Did anyone work out the number of dots differently?





Subitising – At home

- Play board games/dominoes
- Use dot cards

5



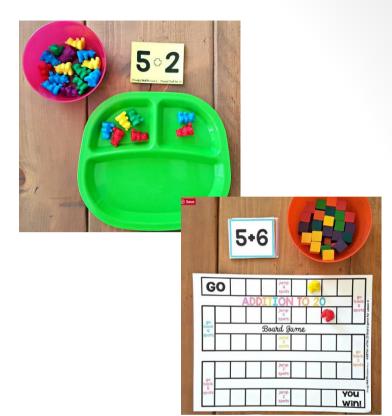
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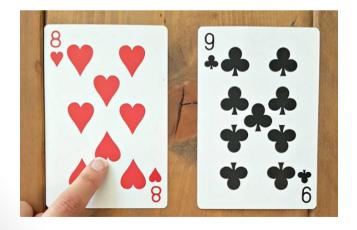
Encourage use of comparative (more/less/fewer/most)



Making totals











Rhymes and songs





https://www.bbc.co.uk/programmes/b03g64rd/clips

http://www.teachingyourchild.org.uk/number-songs.htm



Place Value

 Place value is at the heart of the number system. All digits have a value and a secure understanding of this will enable children to use and understand different calculation methods.





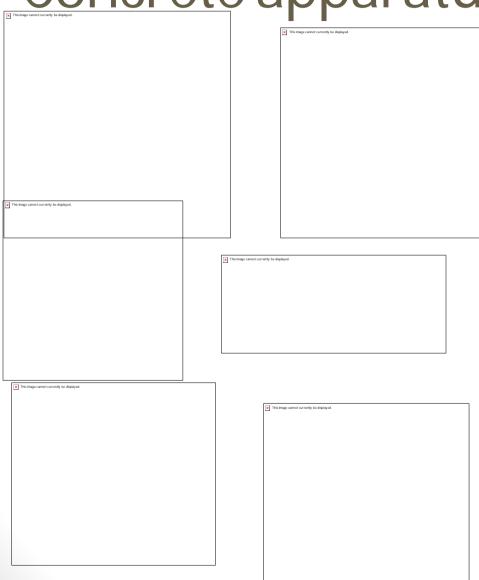


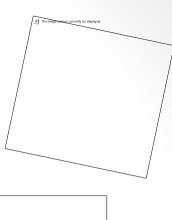
Line up

- Players take it in turns to throw the dice. Either throw the dice three times or use three dice.
- First throw represents the H, second throw the T and third throw the Ones.
- Plot the 3-digit number on a blank number line.
- First to get 4 in a line without opponent's numbers in between wins.
- Variation: You can choose which throw (or dice if you are using 3) is the H, the T and the Ones. This can bring in more strategic thinking.



Concrete apparatus





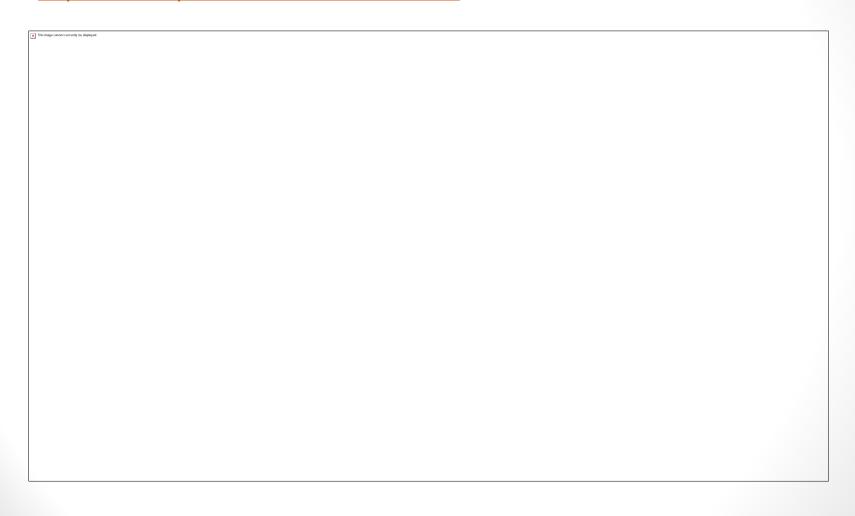
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Addition - Practical

http://www.stpeters.herts.sch.uk/maths-1/





Addition - Written

- Blank number line
- Expanded column method
- http://www.stpeters.herts.sch.uk/ maths-1/

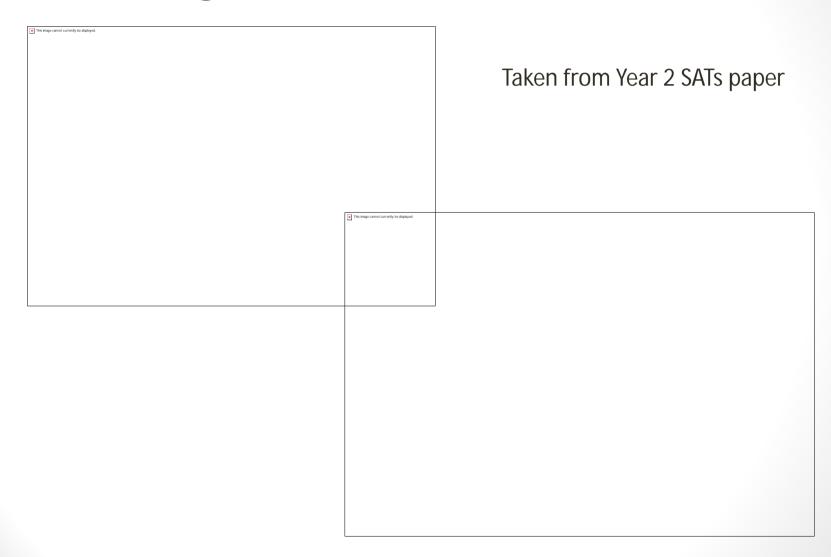


Expanded Method

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Have a go





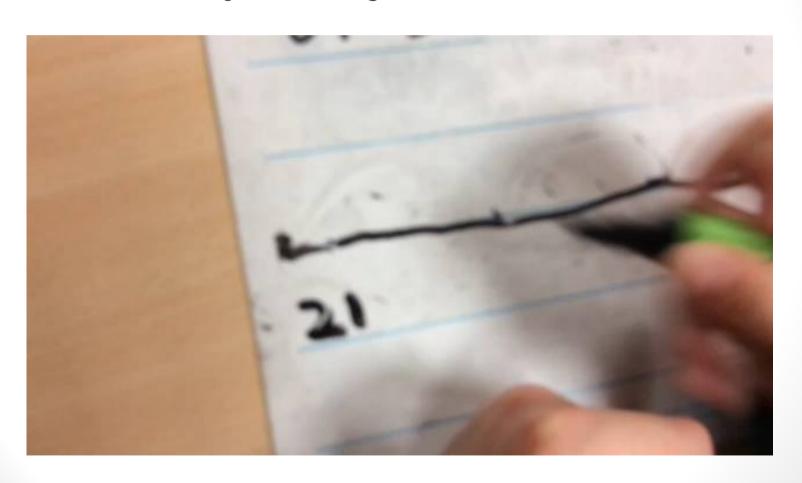
Subtraction – Practical

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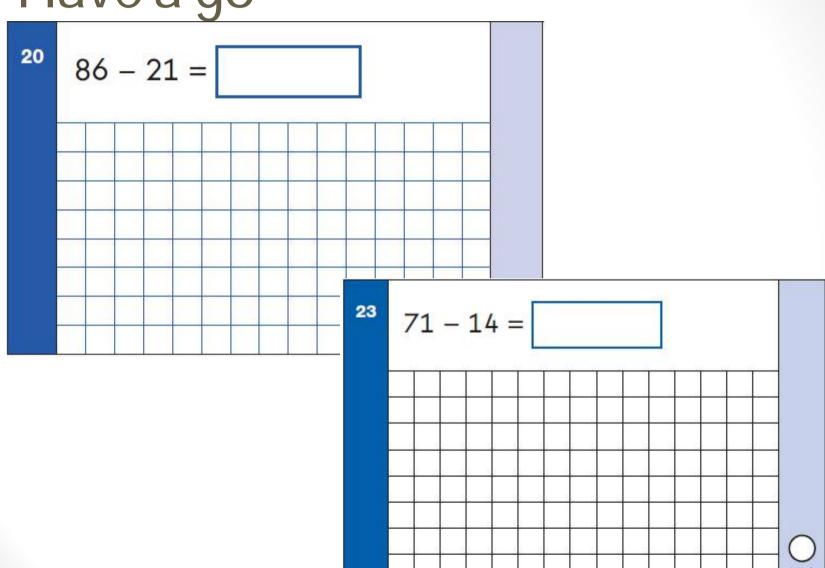
Subtraction – Written

Subtraction by counting on





Have a go





What next?

Write a pair of numbers
that add together to make
8. How many pairs can you
find? Are you sure there
aren't any more?



Pick a pair of numbers. Add them together. Write the can you make?

Choose a pair of numbers and takeaway one from the other. How many totals can you make now?

Which four number sentences link these 3 numbers?

3 4 7

• True or False?

These four calculations

These four calculations

These four calculations

These four calculations

2-3-7

T-3-2-7

3-2-7

3-2-7

Use cubes to help to explain

your answer.

Sam says 'I am thinking of a two digit number, if I add to change the ones digit.'

Is he right? Explain your



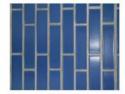
Maths at home – make it real





















- Nature Walk look for numbers, shapes, patterns
- Cooking
- Shopping
- Sharing sweets (or a healthy alternative)



More maths at home

- A prominent clock- digital and analogue is even better. Place it somewhere where you can talk about the time each day.
- A traditional wall calendar-Calendars help with counting days, spotting number patterns and
- Board games that involve dice or spinners-helps with counting and the idea of chance
- A pack of playing cards- Card games can be adapted in many ways to learn about number bonds, chance, adding and subtracting
- A calculator- A basic calculator will help with maths homework when required, there are also many calculator games you can play, too.
- **Measuring Jug**-Your child will use them in school, but seeing them used in real life is invaluable. Also useful for discussing converting from metric to imperial
- Dried beans, Macaroni or Smarties- for counting and estimating
- A tape measure and a ruler- Let your child help when measuring up for furniture, curtains etc
- • A large bar of chocolate (one divided into chunks)- a great motivator for fractions work
- Fridge magnets with numbers on- can be used for a little practice of written methods
- Indoor/outdoor Thermometer- especially useful in winter for teaching negative numbers when the temperature drops below freezing
- Unusual dice- not all dice have faces 1-6, hexagonal dice, coloured dice, dice from board games all make talking about chance a little more interesting
- A dartboard with velcro darts- Helps with doubling, trebling, adding and subtracting.

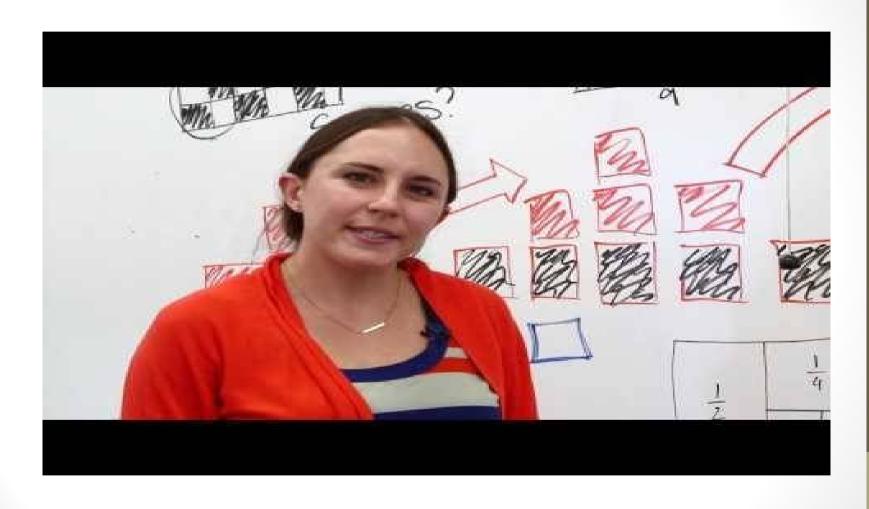


Resources for support

- Existing school publications
- https://www.oxfordowl.co.uk/for-home/mathsowl/maths
- Variety of picture books
- www.topmarks.co.uk
- http://www.stpeters.herts.sch.uk/maths-1/
- https://nrich.maths.org/13371
- http://www.familymathstoolkit.org.uk/activitiesfor-children



Final Word





Questions

Thank you.

