St. John's Primary School

Year 4 Maths Pack

A Parents' Guide to Supporting Maths Learning at Home

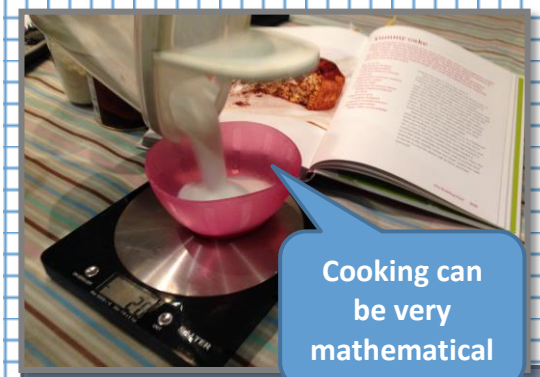
How can you help?

Working Together

Lots of people feel that maths is something that you either find easy, or find hard. But really, the more your child practises, the more they will learn. The important things are that as parents you are positive, make time and follow this guide for support.

There are lots of useful things you can do to help your child, even if you don't feel confident with maths yourself.
Be positive about maths, point out the maths in everyday life, and do maths activities together. That way, you'll really help give your child a head start.

"Perhaps the single most important thing that parents can do to help their children with maths is to pass



Cooking can be very mathematical

Questions Help Learning

These question starters will help your child to think and reason mathematically:

> "Convince me that . . ."
> When given 3 different numbers or shapes, "which is the odd one out and why?"
> "Can you give a reason why *each* of the numbers could be the odd one out?"
> "Can you estimate how much/many . . ."

Always allow plenty of thinking time

TOP TIPS

DON'T say things like 'I can't do maths' or 'I hated maths at school'... your child might start to think like that themselves...

DO talk about maths in everyday life, and ask your child how they work out problems or questions.

DO let your child enjoy talking about what they've learned and take time to listen to how they've been taught.

DON'T try to teach your child methods you were taught at school – even if they're quicker!

DO praise them for their **effort** – this has been shown to be far more powerful that praising attainment.

DON'T put pressure on your child to do written or timed calculations.

DO try and do a little and often.

DO make it fun – you'll both enjoy it more!

Maths Expectations for Year 4

Non-Negotiables

- Recall division facts for 3 and 4 times tables
- Recall x facts for 6 and 7 times tables
- Add 2 digit numbers mentally including crossing boundaries
- Multiply and divide any 2 and 3 digit number by 10

National Expectations

- Round any number to the nearest 10,100, 1000.
- Read Roman numerals to 100.
- Compare and calculate different measures. (mm,cm,M) (g, Kg) (Pounds and pence)
- Convert between different units of measure. (mm to cm, cm to M) (grams to Kilogram)
- Count up and down in hundredths
- Recognise ad write decimal equivalents for ¼ ½ ¾
- Multiplication and division facts up to 12.
- Read, write and compare analogue and digital time from 12 to 24 hour.
- Convert hours to minutes, minutes to seconds, years to months.
- Describe positions on a 2-D grid as coordinates in the first quadrant
- Describe movements between positions as translations of a given unit to the left/right and up/down

Remember: these are expectations for the <u>end</u> of the year

Year 4 Activities Guide

Non-Negotiables

1: Recall division facts for 3 and 4 times tables
2: Recall x facts for 6 and 7 times tables

Apps:
Math bingo – free
Math Monsters – free
DK Times tables - free
Squeebles -£2.99

Websites for:
http://www.oswego.org/ocsd-web/games/SpeedGrid/Multiplication/urikamultires.html
http://www.bbc.co.uk/bitesize/ks1/maths/division/play/popup.shtml
http://www.multiplication.com/games/play/grand-prix-pro-multiplication
http://www.topmarks.co.uk/maths-games/hit-the-button

Activities:

- Use number fridge magnets to make calculations and answers on your fridge or radiator at home.
- Create a set of flash cards by cutting up A4 card or paper into 12. Write the x table question on one side and the answer on the other. You can show the question and ask for the answer or vice versa.
- Skipping/hopping/jumping – children can chant tables
- Throwing and catching- Decide the x table you are working on, you say how many times and call out as you throw, the child calls out answer as they catch. You can reverse this for division.

Routine activities:

- As you walk up or down steps, call out a times table you find tricky e.g. 1x9 = 9, 2x9 = 18
- On your journey to school call out tables out of order for your child to answer.

3: Add 2 digit numbers mentally including crossing boundaries

Apps:
Mental calculation plus1 – free

Websites:
http://www.math-play.com/soccer-math-adding-two-digit-whole-numbers/adding-two-digit-numbers.html
http://www.mathplayground.com/ASB_Canoe_Puppies.html

Activities:

- Throw 2 dice to create first 2 digit number then repeat to create second 2 digit number. Add together.

Routine activities:

- Add 2 digit door numbers as you walk to school

4. **Multiply and divide any 2 and 3 digit number by 10**

Websites:
http://www.topmarks.co.uk/Flash.aspx?f=bingotimesordivide
http://mathsframe.co.uk/en/resources/resource/31/multiply_and_divide_by_10_100_and_1000_2
http://www.snappymaths.com/multiplication/multby10or100/interactive/multby10imm/multby10imm.htm

Activities:

- Roll a dice or pick numbers out of a hat to create a 2 or 3 digit number, write it on place value chart, children x it by ten by moving numbers up one place, divide it by moving it down one place on the chart.

Year 4 Activities Guide For Term 3

National Expectations

Fractions and decimals:

- Count up and down in hundredths
- Recognise and write decimal equivalents for ¼ ½ ¾

Apps:
No appropriate APPs found – let us know if you find any.

Websites:
https://www.splashmath.com/math-skills/fourth-grade/fractions/tenths-and-hundredths
http://www.snappymaths.com/counting/fractions/interactive/hundredths/hundredths.htm

http://www.topmarks.co.uk/Flash.aspx?a=activity08
https://www.splashmath.com/math-skills/fourth-grade/fractions/hundredths

Activities:
When walking up and down the stairs count in hundredths – not always starting from 0.

Create flashcards with ¼, ½, ¾ and the equivalent decimals 0.25, 0.5, 0.75. Ask children to match the cards.

When talking to children about money and buying things link pence and pounds to hundredths.

Using measure to make links between 1cm being a hundredth of a metre..

A Little Bit Extra

http://www.snappymaths.com/counting/fractions/interactive/tenthsandhundredths/tenthsandhundredths.htm