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HERTFORDSHIRE COUNTY COUNCIL

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Dear Parents and Carers,

It is widely known that parental engagement can help children achieve more academically, by being involved in their learning, by supporting and encouraging the learning of facts, practising logical thinking and engaging in maths games.

This resource for KS1 and KS2 children contains some ideas for how you, as parents and carers, can help develop maths at home and improve children's outlook on mathematics.

It can be hard to know what to do to help, with some people even declaring that "they are bad at maths, so I can't help you..." or "I never learnt anything useful in maths at school." These obviously pass on a negative approach to what to do when things get difficult.

Modern teaching works with purposeful mathematics and key skills, which are very relevant to everyday life and essential to modern living, and adults at home have the perfect opportunity to help develop maths skills by involving the children in real life problems. For instance they could compare the, 'Buy one get one free,' offer with the, '3 for 2,' offers at the supermarket or discuss which hotel room or car insurance is the best value on the comparison websites.

I hope this resource will help encourage mathematical learning for your children at home as well as at school.

Kind Regards,



Parents! 5 Top tips to engage your children with maths

KS1

Is maths really that important at home?

Parents have a great opportunity to develop their children's maths skills at home by involving them in everyday activities. If your children can help you find the best deal for your car insurance or work out which supermarket deal is cheapest, then it's helping them understand maths in real life. It also helps develop their basic maths and problem solving skills, which are really important in the UK primary curriculum.

Don't underestimate yourself, or the power you have as a parent getting involved in your child's learning. Ofsted have specifically stated that parental engagement raises pupil achievement.

So here are some tips and ideas to show how you can improve your child's KS2 maths skills at home.

1 Start with a positive mindset

Do you ever hear yourself saying "I'm really bad at maths" or "I just didn't get maths in school"?

It's difficult to understand just how much children will pick up on any negativity towards particular subjects from their parents. Unfortunately, this can be a real barrier to their learning. We advise parents to try and use positive language around their children such as "don't worry, it's okay to make mistakes, we all do", also be as patient as possible with your them when they're doing their homework.

You may not mean to be negative, but your children may take it to heart. Positivity can go a long way to improving their attitude towards maths!

2 Use maths talk every day

Talking about maths is really important for your child's mathematical development. As your child is at KS1 level, you want to start off with the basics - don't overwhelm them.

Whenever you have the opportunity, try to include maths talk in their lives. This is easily done when they are playing with physical objects as you can reinforce their counting skills. For example, how many pennies are you holding? Or what shape is that object? When counting, reinforce the last number they counted as this can help their mathematical development further, for example "one, two three...three cars." Just like children's TV shows do.

Two easy concepts to develop with your children are doubling/halving and adding/subtracting. Again, you could use physical objects such as food to reinforce this.

It's as simple as asking your child to count the number of chicken nuggets or peas (or any other food!) on their plate at dinner time. and then you can ask them things like:

- "If I doubled the number of chicken nuggets on your plate right now, how many would you have?"
- "If I ate half the peas on your plate for you, how many would you have left?"
- "If we added all of my chicken nuggets to your chicken nuggets, how many would we have altogether?"

Even better if you can turn this into a game to engage your children at mealtimes. You can even reward them with more nuggets!

3

Develop their memory skills

One problem that parents across the UK have started to recognise is that the younger generation now have little need to memorise things such as phone numbers any more. Though this seems small, it can be can be detrimental to our children's memory skills.

Try encouraging your children to memorise your phone number and their grandparents'/best friend's phone number, then test them on the numbers occasionally. This can easily be turned into a game or reward system. This not only helps develop their memory skills but also helps keep them safer when they're away from you.

Once they've mastered phone numbers, encourage them to memorise more things such as nursery rhymes, a quote from a book or TV show they like, or prayers to extend their memory skills.

4

Play maths games together

Games are a great way to bond with your children, but also many games use mathematical and logical skills that your children will need in later life. Even a simple game such as a jigsaw puzzle helps children to develop logical and spatial awareness skills. Furthermore, games like snakes and ladders enable children to count the rolls of the dice, which helps develop their counting skills.

5

Watch out for shapes

When you look around, everything is made out of shapes. So why not encourage your children to learn the names of shapes when you're out and about to entertain them? They could identify car wheels as circles, windows as rectangles and even tiles as hexagons or whatever shape they may be!

Parents! 10 Top tips to engage your children with maths

KS2

Is maths really that important at home?

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So here are some tips and ideas to show how you can improve your child's KS2 maths skills at home.

1 Start with a positive mindset

Do you ever hear yourself saying "I'm really bad at maths"? It's only small, but your children can pick up on negativity towards subjects and, unfortunately, this can be a real barrier to their learning. We advise parents to try using positive language around your children when talking about maths. You may not mean to be negative, but your children may take it to heart. Your positivity may well improve their maths attitude!

2 Play maths games together

Many games use mathematical and logical skills that your children will need in later life - plus they're fun! Games like jigsaw puzzles help children to develop logical & spatial awareness skills. Board games with dice develop children's counting skills. Other games that may help develop your child's maths skills are darts, scrabble, and chess. Get playing!

3 Learn their maths methods

You can also support your child's learning by getting to grips with the maths they learn, like the grid method and bar modelling. Sometimes parents try to help by teaching their children methods they learned in school. This can confuse children. Try instead to learn the method that your child uses by asking to see the school's Calculation Policy (usually on the school website), speaking to their teacher, or Googling it. This ensures continuity between school and home learning for your child and genuinely improves their learning!

4 Practise reading the time

As we move into digital, many children are growing up not reading analogue clocks. Make sure your child practises reading analogue clocks in everyday life, as this is part of the maths curriculum. It's as simple as reading the clock you may walk past on the side of a building, otherwise how will they ever be able to read the iconic Big Ben?

5 Use fractions in daily life

Fractions can be simple for you to practise with your child. Simple common fractions can be reinforced at home even if you're not too confident with fractions. Stick to fractions you know such as $\frac{1}{2}$ or $\frac{1}{4}$. See a window split into four coloured panels? Ask your child "what fraction of the window is coloured in blue?" You don't have to use rounded shapes such as cakes and pizzas to practise fractions, just make sure the separate parts of the shape are all the same size.

6 Times tables: Practice Practice Practice!

As everybody knows, it's essential for children to learn their times tables in order to access harder maths questions. This is an easy thing for parents to practise with their children - sneak it in when they're bored! Make car journeys go by faster, or distract them on the bus by asking times tables questions. Challenge them to say their times tables backwards if they get bored of reciting them.

7 Involve them with problem solving

The KS2 maths curriculum requires pupils to be able to problem solve in maths. As parents, you can help your children practice these skills every day. You can ask your child to tell you which is the best deal at the supermarket or how much their pair of trousers are worth when there is a 30% sale on in a clothes store, or which internet provider has the best deal when you need to switch.

8 Use open questions

Sometimes it's just plain hard not to work out the correct answer for your child's homework without simply giving it to them. Unfortunately, just giving children the answer to their homework means don't learn to work the answer out for themselves. This means they'll get stuck without you. Next time your child needs help with their homework, try asking prompting questions such as:

"Why did you write that down?" "How did you get that answer?" "What method did you use?"

This will help your child fully understand the maths methods they're using and reinforce independent learning.

9 Play to their love of technology

There's no substitute for personal support with your child's maths, but when you're busy - or even just for a change - giving children short bursts of online practice can be really helpful.

We're spoiled for choice with maths apps on the market and most really engage children. There's definitely no need to spend lots of money. Many are free or economically priced. If you want to know where to start, two of our favourites are Mr Thorne's Maths and DoodleMaths. But there are plenty more!

10 If they need a challenge...

Maths can be very boring for children when they're just repeatedly practising what they already know. If you find that your child needs to challenge themselves more, or gets bored easily. Explore websites such as NRICH (<http://rich.maths.org/>) or Transum (<http://www.transum.org/>).