

Give your child lots of praise and encouragement !



Helping your child with maths



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This booklet:

- ✓ Is to help you to help and support your child with mathematics.
- ✓ Gives you examples of what you can do at home with your child.

What is numeracy ?

Numeracy is the mathematical skills that we all have. Numeracy involves the use of number in a variety of situations and contexts when counting, investigating, problem solving and finding answers. The development of these skills is a very important part of the mathematical work in school. Some of us may remember mathematical sessions in school as being fun and enjoyable. Other may remember them as being either uninteresting, too difficult or both.

What should we remember ?

Children learn more when they are happy and confident. Maintaining the child's confidence will contribute to the child's success. Children learn more effectively when they are happy and confident. Maintaining this confidence is therefore key to being a successful mathematician. Added adult pressure will not help the child.

Confidence depends on understanding what they are doing. Children will work harder and respond more effectively when they understand what they are doing and when they are challenged and have an interest in what they are doing.

There is a need for much discussion within mathematics - involve your child in the mathematics during a shopping trip or at home – ask them to help you.

When mistakes are made, be careful not to pay too much attention to this. It is far more beneficial for the child to identify the errors themselves.

When your child tells you that he/she is unable to do something, encourage them to have a go with you rather than giving them the answer.

Calculating

The maths work your child is doing in school may look very different to the kind of 'sums' you remember. This is because children are encouraged to work mentally, where possible, using personal jottings to help support their thinking, and think about suitable strategies to solve problems.

From year 3 upwards, children are taught more formal written methods. Children continue to be encouraged to calculate and solve problems mentally.



Discussing the efficiency and suitability of different strategies is an important part of maths lessons.

Talk to your child about how you work things out.

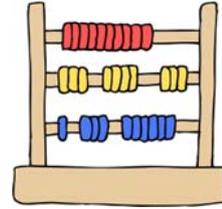
Ask your child to explain their thinking.



Shape and Measure

- Choose a shape of the week e.g. cylinder. Look for this shape in the environment(tins, candles etc) Ask your child to describe the shape to you(2 circular faces, 2 curved edges..)
- Play 'guess my shape'. You think of a shape. Your child asks questions to try to identify it but you can only answer 'yes' or 'no'(e.g. Does it have more than 4 corners? Does it have any curved sides?)
- Hunt for right angles around your home. Can your child also spot angles bigger or smaller than a right angle?
- Look for symmetrical objects. Help your child draw or paint symmetrical pictures / patterns ?
- Make models using boxes / containers of different shapes and sizes. Ask your child to describe their model.
- Practice measuring the lengths or heights of objects(in metres or cm, mm). Help your child use different rulers and tape measures correctly. Encourage them to estimate before measuring using various measuring equipment(measuring tape, ruler, meter stick, string)
- Let your child help with cooking at home. Help them to measure ingredients accurately using weighing scales or measuring jugs. Talk about what each division on the scale stands for.
- Choose some food items out of the cupboard. Try to put the objects in order of weight, by feel alone. Check by looking at the amount on the packets.
- Practise telling the time with your child. Use both digital and analogue. Ask your child to be a 'timekeeper'(e.g. tell me when it is half past four because then we are going swimming.)
- Use a stop clock to time how long it takes to do everyday tasks(e.g. how long does it take to get dressed?) Encourage your child to estimate first !

Practicing number facts



- You can find out which number facts your child is learning at school (addition facts to 10, times tables, doubles etc.) Try to practice for a few minutes each day using a range of vocabulary.
- Have a 'fact of the day'. Pin this fact up around the house. Practice reading it in a quiet, loud, squeaky voice. Ask your child over the day if they can recall the fact.
- Play 'pin pong' to practise complements with your child. You say a number. They reply with how much more is needed to make 10. You can also play this game with numbers totalling 20, 100 or 1000. The numbers you use will depend on your child's age and ability. Encourage your child to answer quickly, without counting or using fingers.
- Throw 2 dice. Ask your child to find the total of the numbers(+), the difference between them(-) or the product(x).
- Use a set of playing cards. Turn over two cards and ask your child to add or multiply the numbers. If they answer correctly, they keep the cards. How many cards can they collect in 2 minutes?
- Play Bingo. Each player chooses five answers (e.g. numbers to 10 to practise the five times tables), Ask a question and if a player has the answer, they can cross it off. The winner is the first player to cross it off. The winner is the first player to cross off all their answers.
- Give your child an answer. Ask them to write as many addition sentences as they can with this answer. (e.g. $10 = _ + _$). Try with multiplication or subtraction.
- Give your child a number fact (e.g. $5+3=8$). Ask them what else they can find out from this fact (e.g. $3+5 = 8$, $8-5=3$, $8-3=5$, $50+30=80$) Add to the list over the next few days.

When faced with a calculation problem, encourage your child to ask...

- Can I do this in my head ?
- Could I do this in my head using drawings or jottings to help me ?
- Should I use a calculator ?(key stage 2)



Also help your child to estimate and then check the answer. Encourage them to ask...

- Is the answer sensible ?
- Can the answer be possible ?

Everyday problems

- Go shopping with your child to buy two or three items. Ask them to work out the total amount spent and how much change you will get.
- Buy some items with a percentage extra free. Help your child to calculate how much of the product is free.
- Plan an outing during the holidays. Ask your child to think about what time you will need to set off and how much money you will need to take.
- Use a TV guide. Ask your child to work out the length of their favourite programmes. Can they calculate how long they spend watching TV each day / each week ?
- Use a bus or train timetable. Ask your child to work out how long a journey between two places should take? Go on the journey. Do you arrive earlier or later than expected? How much earlier / later?
- Help your child to scale a recipe up or down to feed the right amount of people.
- Work together to plan a party or meal on a budget.



These are just a few ideas to give you a starting point. Try to involve your child in as many problem-solving activities as possible. The more 'real' a problem is, the more motivated they will be when trying to solve it!



Counting ideas

- Practise chanting the number names. Encourage your child to join in with you. When they are confident, try starting from different numbers – 4,5,6....
- Sing number rhymes together = there are lots of commercial CDs available.
- Give your child the opportunity to count a range of interesting objects(coins, pasta, shapes, buttons etc.) Encourage them to touch and move each object as they count.
- Count things you cannot touch or see(more difficult !) Try lights on the ceiling, window panes, jumps, claps or oranges / sweets in a bag.
- Play games that involve counting (e.g. snakes & ladders, dice games, games that involve collecting objects).
- Look for numerals in the environment. You can spot numerals at home, in the street or when out shopping.
- Cut out numerals from newspapers, magazines or birthday cards. Then help your child to put the numbers in orders.
- Make mistakes when chanting, counting or ordering numbers. Can your child spot what you have done wrong ?
- Choose a number of the week e.g. 5. Practise counting to 5 and on from 5. Count out groups of 5 objects(5 dolls, 5 bricks, 5 pens) See how many places you can spot the numeral 5.

