

EVERY DAY MATHS ACTIVITIES TO HELP

Children need lots of experiences in making, counting, drawing and talking about numbers. Make connections for your child by explaining how numbers and counting are a part of everyday life. The activities below will help your child develop these skills.

You may feel that the maths your child is doing at school is different from how you were taught, but you will still be able to support your child in many ways.

PLAYING SHOP

- Collect food and grocery items and label them with prices written on sticky notes or prices cut out of shopping catalogues.
- Talk about how we pay for items using notes and coins.
- Make paper money or use play money to buy and sell goods from the shop.
- Order the food items by height (tallest to the shortest) or by cost (least expensive to most expensive).
- Introduce kitchen scales to the shop to weigh some foods such as a box of tea bags or a bag of rice and order items by weight.

PLAYING GAMES

- Play I Spy or other games to identify shapes, numbers and patterns.
- Dice are a great addition to any toy collection. Roll the dice and say, make or write the numbers identified. Roll the dice and add the numbers together to find the total.
- Play number games online with your child.

MAKING PATTERNS

- Recognising and making patterns are important maths skills for exploring numbers, shapes and symmetry.
- Identify and explain visual patterns on clothing, wrapping paper, crockery, cards and furniture.
- Use coloured pegs, blocks, beads or cutlery to begin a pattern for your child to continue. For example, red, blue, white, red, blue, white.
- Encourage your child to draw, create and describe their own patterns. Use them for borders or greeting cards or on material.

MEASURING THINGS

- Use a wall measuring chart to measure the height of people in your family.
- Cut a piece of string for your child, any length will do. Use the string to measure the objects in your house to find out what is longer or shorter than your 'string measuring tape'. Ask your child to identify anything that is the same length.
- Explore other ways of measuring using a cup, jug, teaspoon, icy pole sticks, foot prints or hand lengths.
- Build a tower of blocks that is taller than a favourite toy. Ask your child to count the total blocks to measure the height of the tower.

GO ON A NUMBER HUNT

- With your child find numbers around you, for example house numbers, calendars.
- Look at and say the numbers on car number plates, signs, calendars, newspapers, shopping catalogues, speed signs, house numbers.
- Use different numbers as the starting point for practising counting, for example start counting from 6 or 10. Ask your child to count forwards and backwards. Ask what number comes before or what number comes after.
- Identify the numbers on a calculator.

TURNING MATHS INTO A STORY

By presenting mathematics as a story children can make links to their everyday life. Begin by reading books to your child that include numbers and counting. Turn everyday events or objects into a maths story:

- Count the fruit in the fruit bowl.
- Cut fruit into six pieces.
- Count the pieces of toast you cooked at breakfast.
- Add the total of cutlery at the table.
- Count the number of people travelling in the car or the bus.
- Encourage your child to draw and talk about the number of things in the pictures they have drawn. Write down your child's ideas as a story. Here are some examples:
- There are five pieces of fruit in our bowl. Three are apples and two are bananas.
- My lunchbox has four things inside. One sandwich, one orange and two slices of cheese.

MOVING WITH MATHS

These ideas use movement of the body, hearing sounds, using eyes and feeling with hands to experience counting.

- How many throws can we do without dropping the ball?
- How many jumps does it take to get to...?
- How many times can you tap the balloon before it touches the ground?
- How long does it take you to skip to...?

USING PLAYING CARDS

- Play matching number games with playing cards.
- Put cards in order from largest to smallest by counting the shapes (hearts, spades) or using the numbers on the cards.

ASKING QUESTIONS TO INVESTIGATE

Ask your child questions to encourage them to investigate maths:

- What shapes can you see?
- How could we measure the...?
- How will we find half?
- What is the best way to share...?

HAVE YOU TRIED THESE COUNTING IDEAS AT HOME?

- Count the food items as they are placed in the trolley or unpacked at home.
- Count each toss of the ball as you play a game.
- Count the steps to the letterbox, front door, clothes line.
- Collect and count objects such as toys, shells, and flowers from the garden.
- Count days on a calendar. Count days down to a special event.
- Read books that involve counting.

SPORTS SCORES

- How does your favourite sport tally the score? What maths is presented on the tally?
- How do other sports tally the score, for example, tennis, golf, cricket, netball, football?
- What maths do you use to find the total of the scores?
- Are there other ways to record the score?

- How long do your favourite sport games go for in minutes and seconds? Are they divided into halves, quarters or something else?
- What are the shapes of different playing fields and courts? Talk about edges and angles.
- How can you estimate the perimeter and area of a playing field?

WEATHER MAPS

- Look at the weather maps in the newspaper or on a weather website.
- What is the difference between the minimum and maximum temperature for each day?
- Find a seven-day forecast then record the actual temperature for each day and compare. Was the forecast accurate? What were the similarities and differences?
- Use the information on the weather website to explore differences in weather from your area to others. How much rain do you get compared to others? Are there differences in temperature?

RECIPES

- Collect and read recipes and discuss the use of fractions, millimetres and grams. Encourage your child to make accurate measurements using measuring cups and spoons.
- Discuss how you would double a recipe. Encourage your child to record the new measurements for the recipe.
- Identify the temperature and cooking time on the recipe.
- Estimate the cost to buy all the ingredients to make the recipe.
- Make a list of the abbreviations used in the recipe and then write them in full, for example, L for litre, mL for millilitre, tsp for teaspoon, tbs for tablespoon.

CATALOGUES

- How would you spend £40 from a catalogue? How many products can you buy for £40?
- Select five products from the catalogue then calculate what the cost be if there was a 50% sale. Does it make a difference if you add up the items, and then deduct 50%, or if each item is reduced by 50% then totalled?
- What is the best value sale item in the catalogue? Can you explain your reasoning?
- What are the cheapest and most expensive items in your catalogue?
- Compare the cost of a product across different stores using different catalogues. What did you find?

TRAVEL TIMETABLES

- Can you identify your starting point on the timetable?
- What is the earliest and latest time to travel on this route? What is the difference?
- How long does it take to travel the entire route?
- How many stops are there on this route?
- What is the difference in the time travelled when not making all stops?
- What is the cost? Is it good value compared to other travel options?

MONEY

- Encouraging children to think about money, saving money and considering how they spend money are important skills for all children to develop.
- Encourage your child to work out how much change you will get after buying something.
- Investigate costs for family trips together. For example, a visit to a theme park may include transport costs, entry ticket costs and food costs.
- Discuss saving money for presents or something your child may want to buy. Work out how long it will take to save this much if they get a small amount of money each week.
- Negotiate increases in pocket money as percentages. For example, a 5% increase would be how much money per week?
- Encourage your child to save a percentage of their pocket money or birthday money, and work out how much this would be. For example, how much money would you have if you saved 40% each week?
- Calculate together how much a mobile phone costs per month. How much is spent on messages and how much on phone calls?

NEWSPAPERS

- On the front page, estimate the percentage of picture and text. Does this vary over the first four pages?
- Research the cost per word/line to put a classified advertisement in the newspaper. Calculate how much it would cost to put an advertisement in the classified section.
- Find numbers in the newspaper, in digits and in words. Cut the numbers out and put them in order from smallest number to largest number.
- Visit the section that advertises entertainment. Select an event or movie. Find out how much the tickets are. How much would it cost for your family to attend?
- Try the number puzzles such as Sudoku, in the puzzle section of the newspaper or online.