Mathematics Activities for Out of Class

Suggested activities to be done at home with an adult



SHOPPING

- looking at prices
- calculating change which coins,
 different combinations
- deciding on coins to pay a bill
- O guessing the value of a coin from a description
- weighing fruit and vegetables in the supermarket
- counting pocket money
- calculating the price of a holiday from brochures
- reading labels on bottles, packets, in order to discuss capacity, weight, shape, colour
- estimating the final bill at the end of shopping while waiting at the cash out
- calculating VAT, calculating foreign currency exchange rates
- purchasing litres of petrol and calculating total cost
- o calculating discounts eg 20% reduction, 50% sale price
- calculating how many tins fill an area on a shelf
- using shopping bills to calculate
 - change
- Estimating kg of fruit

- calculating bank accounts and rates of interest
- o calculating postage on letters using first or second class stamps
- writing and sorting shopping lists
- o rubbings of different coins can we recognise the value?
- talking about the different shapes of packets, tins etc.
- calculating the cost of a meal using a menu
- compare the prices of the same item in different shops
- using a collection of receipts as a basis for addition,
 etc
- calculating the cost of the contents of a lunch box
- using a scanner in a supermarket
- using the till receipt to check the shopping
- calculating price per pound, kilogram,
 etc
- Calculating the cost of the family going to the cinema, swimming baths, etc

Talk about numbers!!



- looking at the clock identify the numbers
- telling the time
- calculating how long a journey will take looking at train/bus/airline timetables
- Using TV guide to calculate the length of programmes
- programming the video, the microwave
- discussing the seasons
- Obligation of the second of
- planning out birthdays and discussing how many weeks
- estimating how long it will take to walk/drive to school
- identifying the day of the week on a newspaper
- Calculating time differences in foreign countries
- calculating the age given a date, eg I was born in 1954, how old am I? The building was built in 1860, how old is it?
- discussing the age of family members, putting them in order
- calculating the time if the clock is 10 minutes fast, 10 minutes slow
- trying to find a clock in every shop on a visit to town
- looking at the posting times on the post box
- discussing events in the day eg tea time, bed time, bath time
- Setting the radio alarm
- standing still for a minute count 60 seconds
- Dooking at different types of clocks
- looking at the headstones in a graveyard to calculate ages, etc
- using Teletext on TV
- Ocabulary of time decade, century, millennium
- Using clocks analogue and digital

Think about numbers!!





SEQUENCING

the main events of the day eg breakfast, lunch



- routines and what comes next
- O the parts of a recipe, set of instructions
- getting dressed
- O tying shoe laces
- O the seasons of the year, months of the year



- organising a sponsored event
- O the instructions to make a cup of tea
- tying laces

What comes next?

MEASUREMENT

- calculating distances in a journey eg how much further? How many miles to the litre?
- calculating heights of family members who is the tallest?
- measuring weights of ingredients for baking
- playing with plastic jugs and containers in the bath
- measuring a distance using hand spans, footsteps
- reading a map to calculate the distance of a journey
- using non-standard measures to decide a measurement
- comparing sizes of clothes bigger than, smaller than
- calculating areas eg how many squares on the patio, how many tiles in the shower?
- calculating in DIY activities eg estimate amount of carpet, curtain material, paint etc
- looking at bottles and discussing capacity of various containers
- recording the growth of plants in the garden
- estimating the length of the holiday journey
- drawing simple plans of the bedroom, the kitchen, the garden
- looking at road signs to discuss distances



- comparing the shoe sizes within the family
- identifying position on an OS map using co-ordinates and grid references
- calculating capacity of coke can, milk cartons, etc
- reading the scale on weighing machines and calculating the calibrations
- measuring ingredients out for a recipe using different types of spoons
- comparing journey distances using different routes
- calculating the capacity of the bath using a variety of containers
- converting miles to kilometres on a car journey
- discussing oven temperature when cooking
- monthly diary of own weight, height, etc
- matching metric weight of article to that on the label
- using different length measuring devices eg rulers, tape measures
- weighing different toys to find heaviest, lightest, two the same, etc
- talking about thermostats in the home
- water consumption/wastage in the home
- measuring the growth of plants using nonstandard measures
- estimating the quantity of milk from cow/herd
- estimating the amount of time to harvest a field

- making orange squash how many cups can you get from one bottle?
- weighing unusual items eg snails
- discussing the weight of your pet at the vets
- estimating with string the circumference,
 perimeter of a puddle made by pouring 1 pint of water on the ground
- estimating then counting the squares contained in the outline of a hand/foot
- making clothes for toys to scale
- wrapping parcels what amount of paper, string do we need?

Numbers are fun!!

COUNTING

- 1. collections of objects shells, buttons, pretty stones
- 2. cars on a journey eg how many red cars?
- 3. animals in a field eg sheep, cows
- 4. stairs up to bed, steps etc
- 5. stepping stones in the garden
- 6. railings around the school, park, garden
- 7. lamp posts, gates, road signs
- 8. house numbers but emphasising odd and even
- 9. sports scores cricket averages, goal averages
- 10. pages in a story book
- 11. traffic to pass a house and draw graphs, pie charts to represent data
- 12. counting up to 10, 20, 100 backwards and forwards
- 13. counting buttons, shoes, socks as a child gets dressed
- 14. tidy a cupboard or shelf and count the contents eg tins, shoes, etc
- 15. rows of seeds in the garden and plants in pots etc
- 16. counting particular vehicles on a journey eg Eddie Stobart lorries, motor bikes, etc
- 17. using magnetic numbers to make sums on the fridge door
- 18. counting the legs on pub signs eg Duke of York, The Horse and Farrier
- 19. tally charts eg bird survey
- 20. on a bus journey count how many people on the bus, how many get off, etc



Have fun with numbers!!

ACTIVITIES

USING NUMBERS AROUND US

- using car number plates add the digits to find biggest,
 smallest and total
- sharing out sweets,
 toys etc in groups of 2, 3, 4, 5, 6 etc to help with times
 tables
- ♦ looking for numbers in shops, on buses, doors, cars
- using telephone numbers add the digits to find the nearest to 20, 30 etc
- using telephone numbers value of each digit
- ♦ using sandwiches to show fractions 1/2, 1/4
- using a round sandwich cake to show fractions 1/2, 1/4,
 1/6, 1/8 etc
- ♦ looking at house numbers along the street
- looking in newspapers at sports results calculate average scores, average crowds, etc
- ♦ looking at speed limits on a journey
- finding 'big' numbers in newspapers

- pressing the digits on the telephone to make a call with an adult
- looking for numbers in the home eg washing machine, thermometer, cooker
- checking the temperature in different parts of the world in a newspaper
- calculating the age of a car, wagon, coach from the number plate



- ♦ on a visit to town can you find a number 5, 6, etc?
- collecting data and representing in pictorial form eg graph,
 pie chart
- ◆ reading meters eg electricity, gas
- using TV weather forecast to discuss temperature, wind speed, wind direction, etc
- ♦ folding towels to show ½, ¼
- calculating the number of twin lambs born
- using the appropriate vocabulary eg position on, over, up, down, above, below
- keeping a height chart in the kitchen/bedroom

Numbers pop up everywhere!!

REASONING

- laying the table for four people
- planning a TV viewing session
- planning a day out for the family
- o asking what do you think will happen if?



How did numbers help you?

PROBLEM SOLVING

In relation to planning:

- O school visits
- O menus
- O school teams
- O sports day
- O family day out to a theme park
- O family day out to the shops

You need your numbers to help in solving problems

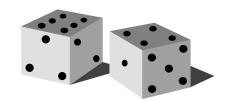
OTHER IDEAS

- singing nursery rhymes and songs
- clapping in different sequences
- reading stories with a number element
- O games of chance
- O calculator fun games
- looking for shapes in the environment eg windows
- looking for and making patterns eg bricks in a wall, square tiles on a floor
- O playing with a number line or number square
- using a thermometer to read temperature identify negative numbers
- identifying angles eg right angles
- O looking at symmetry eg petals on a flower
- making 3D shapes in card
- O tessellating shapes eg tiles in the bathroom
- grabbing straws estimating a group of 10,
 12, 15, etc
- counting how many items will fit into a match box or film canister
- using fridge magnet numbers and sponge numbers around the house
- o making a 50cm string circle how many items will fit in it?
- make a scrap book of numbers
- O learning times tables tape on a car journey
- using cross stitch and mosaics shape, counting and symmetry
- making sandcastles and discussing different shapes
- o using salt dough, plasticine to make numbers
- using a compass when on a walk to check direction, degrees, angles

NUMBER GAMES

- Skipping every skip count, 2, 3, 4 etc
- Hop scotch
- Ludo
- Snakes & Ladders
- Dominoes
- Cards number sequences
- Bingo
- Dice
- Yahtzee
- Darts
- Heads & Tails and keep a tally
- Chess and draughts
- Monopoly
- Computer programmes
- Beetle
- Bridge
- Snap
- Connect 4
- Counting games to practise times tables
- I spy a number in town, on a journey
- Number jigsaws
- Rummy
- Patience







- Clock golf, croquet, crazy golf on holiday to help counting
- Snooker
- Pool
- Number Lotto
- Dot to dot with numbers
- Skittles
- Polydron
- Happy families
- Whist
- Shuttle table
- Quoits
- Newmarket
- Pontoon
- Cribbage
- Number crosswords, dot to dot, puzzles
- Rubik cube

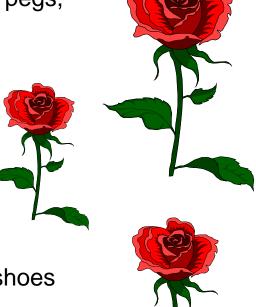




Play games - enjoy numbers!!

SORTING AND MATCHING

- ◆ setting the table 1 to 1 correspondence and sorting cutlery
- sorting buttons, beads, colours of pegs,
 sweets, biscuits, containers,
 seeds for the garden, flowers
- sorting clothes for washing size, colour
- matching pairs of socks, gloves, shoes
- ordering a group of items by size
- threading beads on a string to a set pattern
- ♦ sorting groceries



Sort numbers - match numbers!!