Maths takes shape

We need to be aware of the shapes and spaces all around us. They affect how we dress, arrange the furniture, decorate our homes and build the world around us!

Orange peel

Peel an orange (or a satsuma) then do the following. Divide it into segments. Count the segments. Eat one segment. That's one segment out of how many? Eat half of all the segments. How many segments was that? What other fruits have segments?

Imagine this

Close your eyes and imagine that in front of you there is a cube. Can you see it in your mind?
What shape is one side (or face) of a cube? (It's a square)
How many sides (or faces) has it got? Remember to keep your eyes closed! How many corners has it got? How many edges has it got? Seeing the shapes in your head is very important in maths.
Try this with other solid shapes.

Maths in play

Playing games will help your child to get better at maths. Play games like snakes and ladders, ludo or dominoes. Or, you can make up your own maths games.

Dominoes down

Spread a set of dominoes face down on the table. Each player chooses a domino at the same time. Add the two numbers on your domino together. Whoever has the largest number keeps both dominoes. The person who ends up with the most dominoes wins! You can change the game by: subtracting the two numbers on your domino from 12; or multiplying the two numbers on your domino.

Top of the table!

Your football team is unbeaten in the first ten games of the season: WWDWDDDWWD, where a win(W) is 3 points, a draw(D) is 1 point, and a loss(L) is 0 points. How many points has your team got?

Striker!

Your favourite football striker is scoring in every game! His record for the first ten games of the season is: 2, 1, 1, 2, 3, 1, 2, 3, 1, 4. What's his average number of goals in each game? Clue Add up all the goals and find the total number scored, then divide this number by the number of games played. That's your average!

Maths and money

It's in our pockets, it's down the back of the sofa, it's everywhere. Whether we're buying a pint of milk or sorting out rent or a mortgage it's part of everyday life for us and our children. Here are a few ideas that can help your children learn about money.

Pizza please!

Your pizza costs £3.60. Cut it into six equal slices. How much does each slice cost? The answer is that each slice costs 60p.
How much is half a slice?
How much do two slices cost?
How much does half (1/2) of the whole pizza cost? What if you cut your pizza into four equal slices (quarters)?
How much does one slice (1/4) cost now?
How much does half cost now? Is it the same, more or less than above?

'Supercalifrajalisticexpealidoutius'

To get your children started let them count the letters in the word above. How many letters has it got?
If the vowels cost 5p and the consonants cost 10p, how much would that be? In the same way, how much is your child's name worth?
How many words can you write for one pound? **Money!**
Money! Money!
Spread your change out on the table.
Find the biggest coin. Is it worth the most?
Find the smallest coin. Is it worth the least?
Put them in order of value.

Calculator costs

Use your calculator to find the cost of:
one sweet.
Clue 1. Enter the cost of the packet of sweets on the calculator display, for example 35(pence).
2. Press the divide ÷ button.
3. Count the number of sweets in the packet, and enter this number on the calculator, for example 42(sweets).
4. Press the equals = button.
5. The answer is 0.833(pence), which is less than 1p for each sweet.

Now use your calculator to find the cost of: one stick of chewing gum; one finger of a chocolate bar;

If you have any questions or queries about anything written in this leaflet or your child's progress in maths, please feel free to make an appointment with your class teacher.

Maths @ Padiham Green

We can all do maths and we do it everyday. We are always:

- counting
- estimating
- weighing
- shaping
- measuring
- timing and
- Calculating.

Maths at home

There's lots of maths in your home

Try playing number games with playing cards, dominoes and board games. Children can have hours of fun making their own games too, but you'll need to encourage them by joining in yourself. Make sure you have lots of dice and counters (pennies, uncooked pasta or building bricks will do fine) for counting.

Play some simple games

Sort the washing and matching pairs of shoes and socks. Find the patterns in everyday things like adding up 2p, 5p or 10p coins, or reading the house numbers as you go along your street.

If your child is not good at working things out in their head at first, **don't worry!** Be positive. Praise them for what they can do and keep on working with them.!

What can I use to help my child with maths at home ?
A globe of the earth.
Plastic measuring jugs marked with litres(l) and millilitres (ml).
A tape measure marked in centimetres(cm).
Kitchen scales (that can weigh in kilograms(kg)).
Plastic measuring spoons (5ml, 10ml and so on).
A watch with stopwatch or timer on it.
Road maps and road atlases.

Phone number sums
What do all the digits of your phone number add up to? For example, 0181 424 1163 adds up to 31. Ask your child to find ten phone numbers in your local phone book with the same total as your own phone number.

Where would you like to go today?
Get out a road atlas and find the chart that shows distances between towns and cities. Find where you live and choose five places round the country you would like to visit.
Which is the furthest from where you live and which is the nearest?
If you were travelling at about 30 miles an hour (that's one mile every two minutes), roughly how long would it take you to get to each place from your home?

Learn your tables while at the shops!
Count things that come in sets of the following.
Two: twin packs of orange juice, yoghurts, socks.
Three: bars of soap, packs of sandwiches, packs of biscuits.
Four: packs of bread rolls, chicken pies, fingers on a chocolate bar.
Five: slices of meat or cheese.
Six: eggs, jam tarts, cans of cola.
Seven: now there's a challenge! Can you find anything that comes in sets of seven?
Or how about sets of eight or nine?

Less than, more than, same as
Check round the house or the shop for things that weigh exactly 1 kilogram(kg). Feel the weight of a 1kg packet. Use the 1kg packet to find things which are: less than 1kg; more than 1kg; equal to1kg.

It's a bargain!
What would the shopping items in your trolley be worth if their prices were cut by:
50%;
25%;
10%;
20%; or
what if they were all two for the price of one?

Maths on time

We need to know more than just how to tell the time. Every day we use timetables, calendars and diaries to make life easier.

A diary of events
Buy your child a pocket diary and help them plan out a daily timetable for their week at school. Write in the times on days of the week they have school assembly, after-school clubs, PE, games and swimming. Make a note of any days they have homework. You can use colour codes to highlight them.

We're all going on a summer holiday!
Don't miss your flight!
Your flight to Spain leaves at 10:50. Is that day or night?
You need to be at the airport two hours before your flight leaves. What time is that?
What time will you need to leave your house to get to the airport?
The flight takes three hours: 11:50, 12:50, 13:50.
So, you arrive in Spain at 13:50, which is ten minutes to two in the afternoon.
Now, your return flight leaves Spain at 15:30.
What time do you need to be at the airport? What time will you arrive home?

The one-minute challenge
What can your child do for exactly one minute?
Balance on one leg?
Stare without blinking?
Count the seconds in their head?
What else can they do in one minute?
You'll need a watch or clock with a second hand to time your child.

Beat the clock
Time your child as they do one of the following.
Count back from 100 in tens.
Count back from 75 in fives.
Starting at six, count up in tens to 206.
Starting at 39, count up in twenties to 239.
Starting at 67, count up in thirties to 367.
Can they beat their record?

World family
You have a family all over the world. When you are having your lunch (12 noon), what are your relatives doing in:
Los Angeles (8 hours behind)
Jamaica (5 hours behind)
India (51/2 hours ahead)
Hong Kong (8 hours ahead)
Sydney (10 hours ahead)?