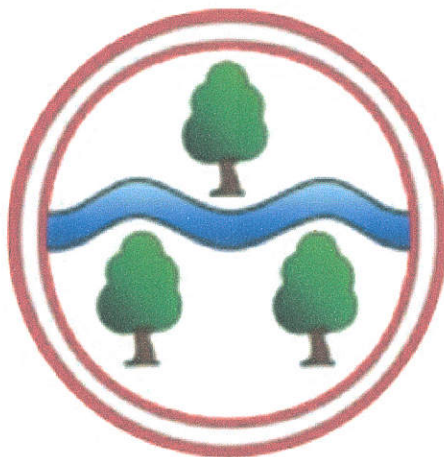


# Mathematics at Ghyllgrove Primary School



## ***Supporting your child with Maths at home*** ***Early Years Foundation Stage***

### Our Vision

*At Ghyllgrove Primary School, we want to provide a fun, engaging and relevant Mathematics curriculum, which promotes the development of confident, independent and efficient mathematicians. By the end of their time at Ghyllgrove Primary School, we aim to have developed mathematically fluent children who enjoy the challenge of Mathematics, have a solid understanding of fundamental mathematical skills and have mastered a set of skills that will support them throughout life. We aim for all children to develop a strong sense of number and our number system, proficiency in arithmetic and an ability to articulate their mathematical understanding and reasoning. As well as providing children with rich, real life examples and opportunities for the application of these skills in lessons, we continuously seek to provide opportunities across the curriculum and through partnership with our families at home, to promote Maths skills and shows their relevance in all aspects of everyday life.*



## **Early Learning Goals for Mathematics**

### **ELG 11 - Number**

Children can...

- Count reliably with numbers from 1 to 20.
- Place numbers 1 to 20 in order.
- Say which number is one more or one less than a given number.
- Using quantities and objects, they add and subtract two single-digit numbers.
- Count on or back to find the answer.
- Solve problems, including doubling, halving and sharing.

### **ELG 12 - Shape, Space and Measures**

Children can...

- Use everyday language to talk about size, weight, capacity, position, distance, time and money to compare quantities and objects and to solve problems.
- Recognise, create and describe patterns.
- Explore characteristics of everyday objects and shapes and use mathematical language to describe them.

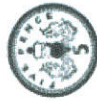


# How you can support at home



## Measuring

- Cooking- weighing and following instructions
- Measure yourself! - make a height strip. Keep a graph to show your growth! How much have you grown?
- Measure stuff! - use a tape measure
- Telling the time- how long until...? Analogue /digital time, Days of the week, dates, keep a calendar/



## Picnic or Party maths:

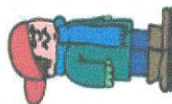
- Preparing food for a group of people is a real problem solving opportunity; how many cups can we fill with one jug, how many pieces of pizza can we cut from each one? A great opportunity to use terms like 'half' 'quarter' 'double' and put those tables into practice.

## Shopping games:

- Set up a mini supermarket in the kitchen and give the children some real money to go shopping with.
- Change can be the trickiest concept and needs to be taught in 'real' shopping activities which can be done really well at home.

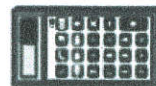


## How you can do Maths at Home



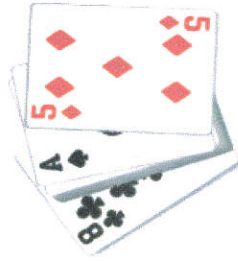
## Number games

- Board games
- Snakes and ladders
- Dominoes
- Playing card games eg snap, doubles
- Dice games eg exchange game
- Have fun playing with a calculator and try out those signs!



## Shapes everywhere

- Shopping Shape Sort; let your child loose on the packages and sort them into cuboids, cylinders, cubes
- 2-D shape pictures and patterns
- Which shapes can you draw? you will need a ruler for some of them!



# Props around the house

Ideas taken from **Maths for Mums and Dads** Eastaway, R. and Askew, M. (2010)

- **A prominent clock-** digital and analogue is even better. Place it somewhere where you can talk about the time each day.
- **A traditional wall calendar-**Calendars help with counting days, spotting number patterns and
- **Board games that involve dice or spinners-**helps with counting and the idea of chance
- **A pack of playing cards-** Card games can be adapted in many ways to learn about number bonds, chance, adding and subtracting
- **A calculator-** A basic calculator will help with maths homework when required, there are also many calculator games you can play, too.
- **Measuring Jug-**Your child will use them in school, but seeing them used in real life is invaluable. Also useful for discussing converting from metric to imperial
- **Dried beans, Macaroni or Smarties-** for counting and estimating
- **A tape measure and a ruler-** Let your child help when measuring up for furniture, curtains etc
- **A large bar of chocolate** (one divided into chunks)- a great motivator for fractions work
- **Fridge magnets with numbers on-** can be used for a little practice of written methods
- **Indoor/outdoor Thermometer-** especially useful in winter for teaching negative numbers when the temperature drops below freezing
- **Unusual dice-** not all dice have faces 1-6, hexagonal dice, coloured dice, dice from board games all make talking about chance a little more interesting
- **A dartboard with velcro darts-** Helps with doubling, trebling, adding and subtracting.



## In the street



- Recognising bus numbers.
- Number plate hunt. Who can find a 7? Add the numbers up.
- Comparing door numbers
- Counting – how many lampposts on the way to school?

## Doing the washing



- Sorting by colour and size.
- Matching/pairing up socks.
- Find four shoes that are different sizes. Can you put them in order?

## Time



- What day is it yesterday, today, tomorrow?
- What time of day is it? Breakfast time, lunch time, bedtime
- Recognising numbers on the clock. If you cover a number, what number was missing?

## Food!



- Can you cut your toast into 4 pieces? Can you cut it into triangles?
- Setting the table. Counting the right number of plates etc. How many more do we need?
- Can you make shapes/ patterns out of the knives and forks. Can you put them in the right place in the drawers?
- Helping with the cooking by measuring and counting ingredients.
- Positional language at dinner time: what is on the rice, where are the carrots etc?

## Going shopping



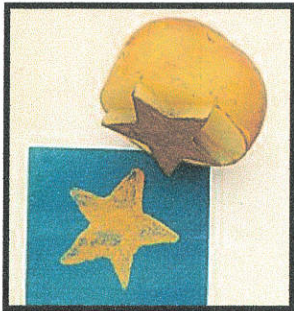
- Reading price tags
- Counting items into the basket
- Finding and counting coins
- Comparing weights – which is heavier

## Measuring



- Are you taller than a ...?
- Marking height on the wall.
- Cut hand shapes out of paper. How many hands long is the couch? How long is the table? Which is longer?
- Who has the biggest hands in our family?
- How many steps from the gate to the front door?
- Arranging family members or toys in height order.

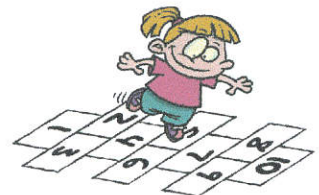
## Shapes



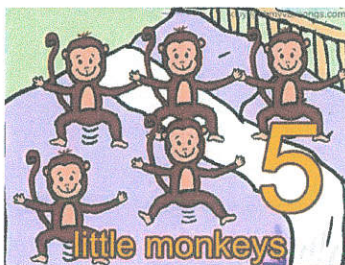
- Cut a potato into shapes (circles, triangle etc). Use with paint to make pictures and patterns.
- Cut out shapes from coloured paper/ newspaper and arrange into pictures.
- Shape hunt: Can you find a square in your house (windows etc), a circle ...

## Games

- Putting cards into piles
- Jigsaws (you can make your own by cutting up a magazine picture)
- Snap or pairs (matching pairs)
- Snakes and ladders or other simple dice games.
- Adding numbers on two dice.
- Bingo, with numbers or shapes
- Hopscotch



## Number rhymes and songs



*Eg: 5 little monkeys jumping on the bed  
One fell off and bumped his head  
Mummy called the doctor and the doctor said  
"No more monkeys jumping on the bed!"  
4 little monkeys jumping on the bed ...*