

## Fun Activities to Try At Home:

- ⇒ Draw a 6x7 grid and fill it with numbers between 1 and 100. Take turns to roll a dice 3 times. Using any of the four operations, try to make a number on the grid. If you can make a number, cover it. The winner is the first to cover four numbers in a line on their grid.
- ⇒ Use a pack of playing cards and take out the Jacks, Queens and Kings. Take turns to take a card and roll a dice. Multiply the two numbers and write it down. Keep a running total. The winner is the first one to go over 301.
- ⇒ Draw a 6x6 grid and fill it with numbers under 100. Choose the 7, 8 or 9 times table. Take turns to roll a dice and choose a number on the grid. Divide your chosen number by the dice number and if the remainder is the same as the number on the dice, the board number can be covered. The winner is the first to get three of their counters in a straight line.
- ⇒ Draw a decimal number line e.g. 0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9, 1.0. Take turns to choose a fraction, e.g.  $\frac{2}{5}$ . Use a calculator to convert it to a decimal and mark your initials on the number line. The aim of the game is to get 3 crosses in a row without any of the other player's marks in between.
- ⇒ Play 'Guess my Number' with seven- or eight-digit numbers. Ask mathematical questions to guess the number.

# A Booklet for Parents

Help your child to achieve an excellent  
understanding of Mathematics:  
**Year 6**



Together we care, inspire  
and achieve excellence

## Year 6 Skills and Expectations

Here is a selection of skills and knowledge expectations which you could practise at home with your child.

- ✓ Read, write, order and compare numbers to ten million. To say the value to each digit.
- ✓ Round any whole number (up to 10,000,000) to the nearest 10, 100, 1000, 10 000, 100 000, 1 000 000.
- ✓ Use negative numbers in the context of temperature and calculate differences between them through zero.
- ✓ Multiply numbers with up to four-digits by a two-digit whole number, using the formal written method.
- ✓ Divide numbers up to four-digits by a two-digit whole number using the formal written method.
- ✓ Use their knowledge of the order of operations to carry out calculations involving the four operations (BODMAS/BIDMAS).
- ✓ Identify the value of each digit in decimals up to 3 decimal places.
- ✓ Multiple and divide numbers by 10, 100 and 1000, giving answers up to 3 decimal places.
- ✓ Recall and use equivalences between simple fractions, decimals and percentages ( $0.5 = 50\% = \text{a half}$ )
- ✓ Find percentages of amounts eg 15% of 360,  $30\% \times 780$
- ✓ Convert between metric units of length, mass, volume and time.
- ✓ Recognise and describe simple 3D shapes around them.

## Using Maths in everyday life with your child

Here are some suggestions of how you can support your child's learning in maths in day-to-day life:

- Keep a weekly log of temperatures around the world. Compare temperatures and create a mini weather report using the data.
- Plan and cost a family holiday.
- Plan, prepare and cook a family meal.
- Keep a record together of how long your child watches television/plays on the computer etc. for one week. Work out the total amount of time and the average amount of time.
- Find the price of a favourite food. Work out how many 6 or 7 of them would cost. How much change would there be from £50.00?
- When out shopping, look out for price cuts involving percentages. Ask your child to work out the price and the saving.
- Use an atlas to calculate the distance between two destinations. Calculate how long the journey would take if you travelled at an average speed of 60 miles an hour.
- Involve your child when carrying out any decorating or gardening. For example, ask your child to work out how many rolls of wallpaper needed for a room, number of tiles needed for a room etc.
- Keep a log of the weight of junk mail received over a week/month. Discuss findings.
- If out for a meal, calculate the average cost per person.