Supporting Maths At Home ~ Year 6 ~ Curriculum Links ~ Autumn Term

Maths is fun

Calculation
(Adding/Subtracting/Multiplying/Dividing/BODMAS)

- Children should be able to add, subtract, multiply and divide decimals. Give children word problems in the context of money and ask them to use the appropriate calculation method. E.g. If a box of chocolates costs £4.67 how much will 12 cost?

Fractions
(Order, Compare & Simplify, Fractions/Decimals/Percentages)

- When serving dinner, can your child serve up estimating the percentage/fraction of each portion?
- Estimate percentage/fractions of different things e.g. grass in the garden, space chairs take up in the lounge.
- Give children a selection of fractions to order & compare.
- Give children fractions/decimals/percentages to convert between.

Mental Maths

- Practise decimal times tables daily – Use games e.g. bingo.
- Make up rhymes together to help your child to remember the harder times tables facts, e.g. 6 x 7 = 42 phew! 7 x 7 = 49 fine! 6 x 8 = 48 great!

Shape
(Coordinates)

- Play battleships in a four-quadrant grid.

Place Value
(Ordering, Comparing, Rounding and multiplying/dividing by 10/100/1000)

- Ask children to round numbers on signposts to the nearest 10, 100, 1000.
- Ask children to round shopping items to nearest whole number, 1 decimal place.
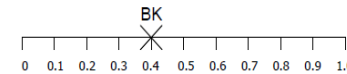
Measures
(Time, Weight & Length)

- Weight/Capacity ~ Cook with your children. Ask them to read the scales/measuring jug and convert the measurements between litres and millilitres, grams and kilograms.
- Time ~ Ask children questions linked to time. E.g. If we set off on our journey now and it takes 48 minutes, what time will we get there?

Fractions & Decimals

Three in a row

For this game you need a calculator.
Draw a line like this:

BK
X

0   0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0

- Take it in turns to choose a fraction, say $2/5$. Use the calculator to convert it to a decimal (i.e. $2 \div 5 = 0.4$) and mark your initials at this point on the line.
- The aim of the game is to get 3 crosses in a row without any of the other player's marks in between.
- Some fractions are harder to place than others, e.g. ninths.

Place Value

Negative Boxes game

The Rules

This is a two player game.

Each player takes it in turn to join two dots next to each other, in a straight line – No diagonals allowed.

If a player completes a square he/she colours the square in their colour and gets the value written inside the square.

They then get another go.

The winner is the player with the highest score when all boxes are completed.

Game 1

-1	+3	+1
-2	-2	+2
+2	-3	-2

Game 2

+4	-5	+1
-3	+2	-4
-5	+3	-1

Properties of Number
(Primes, Factors, Highest Common Factors, Multiples & Lowest Common Multiples)

- Create Venn Diagrams to sort properties of number (e.g. multiples of 2 and factors of 25, primes and factors of 36)

Supporting Maths At Home ~ Year 6 ~ Just for fun...

Useful Websites

Online games and videos to enhance Maths learning at home

- http://www.amathsdictionaryforkids.com/
- http://mathszone.co.uk/
- https://www.bbc.co.uk/bitesize/subjects/z826n39http://www.primaryhomeworkhelp.co.uk/maths/
- https://mathsframe.co.uk/
- https://nrich.maths.org/primary
- http://www.crickweb.co.uk/ks2numeracy.html
- https://www.topmarks.co.uk/maths-games/7-11-years/ordering-and-sequencing-numbers

Card game

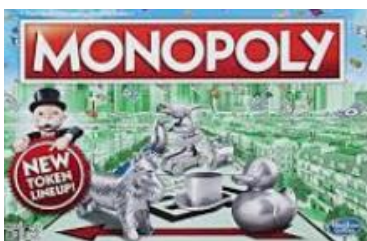Use a pack of playing cards.
Take out the jacks, queens and kings.

- Take turns.
- Take a card and roll a dice.
- Multiply the two numbers.
- Write down the answer. Keep a running total.
- The first to go over 301 wins!

Play Board Games

- Monopoly
- Go For Broke
- Snakes & Ladders
- Connect Four
- Chess

Fours

- Use exactly four 4s each time.
- You can add, subtract, multiply or divide them.
- Can you make each number from 1 to 100?
- Here are some ways of making the first two numbers.

$$1 = (4 + 4)/(4 + 4)$$
$$2 = 4/4 + 4/4$$