# How Can I Help My Child With Maths In KS2? Number and Place Value

### Numbers to 100

- Knowing how to use a 100 square to help them, and being able to visualise it when they don't have one in front of them, is an important skill. Have a play with this Interactive 100 Square, spotting patterns and identifying covered numbers, then see if your child can fill in the gaps in this Missing Numbers 100 Square Puzzle.

### Place Value

- Children need to understand the value of each digit in a number. Make your own Place Value Arrow Card pack and use it to make numbers to 10,000. Can your child identify how many ones, tens, hundreds and thousands there are in different numbers? Can they find 10, 100 or 1000 more or less?
- Use the Place Value Slider to make numbers to 1,000,000 then practise reading them, writing them in words and identifying the value of certain digits. Laminate these rounding mats to work on rounding numbers to the nearest 10, 100, 1,000, 10,000 and 100,000.

### Using a Number Line

- Print out and laminate the -20 To 20 Number Line and answer questions such as 8 – 11 =?, or -14 + 9 =?

### Understanding Roman Numerals

- To become more confident with Roman numerals to 12, play this matching game. Once confident, work on writing Roman numerals to 100 using this number square to help. This chart will help your child to read and write numbers to 1000 in Roman numerals.

### Prime Numbers

- Use this poster as a source of information on prime numbers.

# Addition and Subtraction

### Number Bonds to 100

- Knowing the number bonds to 10, to 20 and 100 is crucial to help mental maths and speed and ease of calculation. There are plenty of games to play to reinforce these facts, e.g. Number-bonds-to-20-bingo. You might also find these Number Bonds to 100 visual aids useful. Why not hide them around the house and ask your child to go and hunt down the pairs?
- Play this exciting Diwali themed addition and subtraction to 100 board game.

### Writing Number Sentences

- Understanding that addition calculations produce a larger answer than the numbers within the calculation and how the largest number must always go first in a subtraction sum is important for accuracy of recording and calculating. This differentiated addition and subtraction Presentation will help your child practise filling in the correct operation to make the number sentence correct.

### Mental Addition

- How quickly can your child add and subtract 100 from the numbers on this mental maths activity sheet? Could they repeat the activity by adding and subtracting ones or tens from each number instead?
- Practise mental addition of numbers to 500 and 1000 by playing number bingo to 500 and 1000.
- Go on an addition to 1000 treasure hunt here!

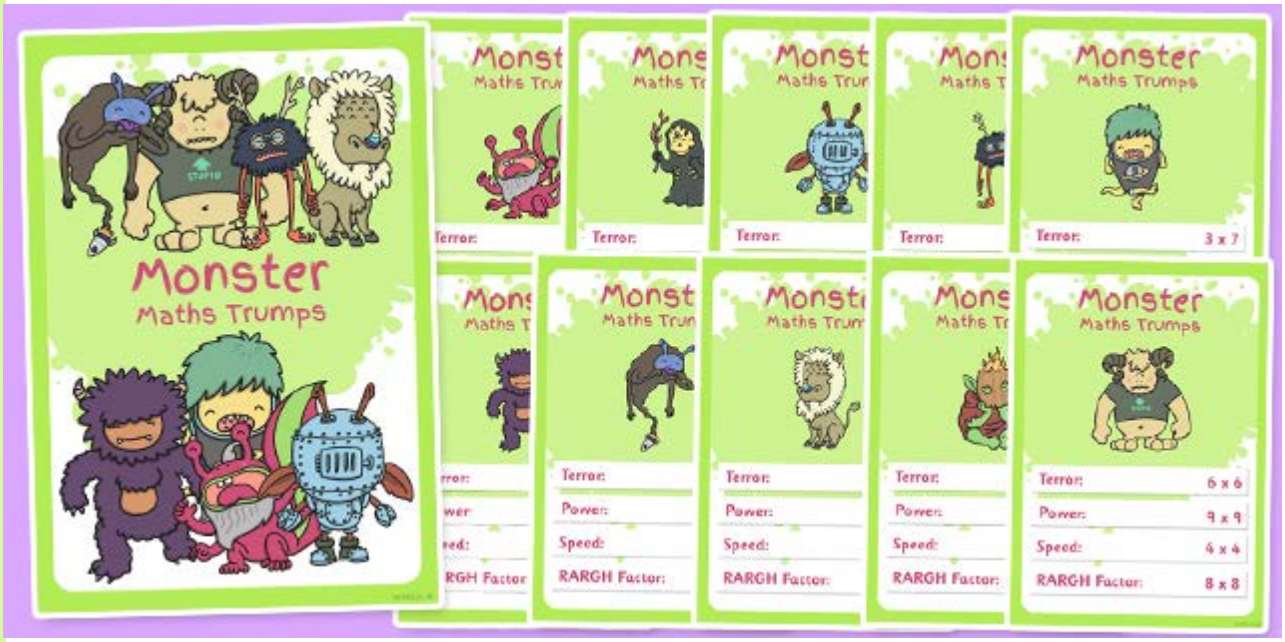
# Multiplication and Division

### Times Tables

- All times tables up to 12 x 12 should be learnt by the end of Year 4. Get your child to test themselves using the times tables cards (available in each table, instructions on how to use them are included at the end of the resource). Make multiplication spin wheels and use them to help complete the Multiplication Wheel Maths Challenge Cards. Work on knowledge of multiplication tables by playing the Multiplication Race.

### Fun Practice for Multiplication and Division

- Use the link to play a multiplication and division board game (available in all times tables).
- Play this fun Monster Multiplication Top Trumps. Here is the division version.
- Play against an opponent to see how many division sums you can find using Colour The Division Game Sheet.
- Play the Division By Number Race (available in all times tables) to practise inverse operations.
- Play division bingo with numbers up to 100, here!
- How many answers can you get right playing the Multiplication and Division Presentation Quiz?




**Monster Multiplication Top Trumps**

# Problem Solving

- This helpful Problem Solving Pencil Prompter will help your child to think through the steps of solving word problems. Laminate it and tick off the stages as your child works through their problem.
- These differentiated mental maths cards will help your child work on solving problems in their head.

### Applying Problem Solving

- These Money Problem Challenge Cards will help children to work on applying their problem solving and calculation skills to real life situations.
- Use these real life measure problems to help your child practise conversions. This set of length, time and capacity problem solving cards will help your child to apply their problem solving knowledge to real life situations.
- Use these Flag Pictures to investigate lines of symmetry, then use the Shape For Symmetry Sheet to work out the number of lines of symmetry each shape has when presented in different orientations.
- Learn about ratio and proportion whilst creating something tasty at the same time using these fun recipe challenge cards.

# Fractions, Decimals and Percentages

- This handy number line will help your child to count up and down in tenths, understanding that these fractions are all part of a whole.
- Play with this set of Fraction Matching Cards to match up a fraction with a visual representation.
- Play this fun fraction board game against an opponent, finding fractions of two, three and four digit numbers.

### Equivalent Fractions

- Using the Equivalent Fraction Wall, work out which fractions are the same as others, e.g ½ is the same as how many sixths? Why not have a go at the Equivalent fraction quiz?
- These fraction comparison cards will help children to compare fractions using symbols (<, > and =).

### Converting Fractions to Decimals and Percentages

- This helpful poster will remind your child how to convert fractions into decimals and then into percentages. This poster also gives a visual representation of a fraction with a written fraction and related decimal and percentage.
- Laminate these fractions, decimals and percentages loop cards and use them like dominoes to get back to where you started.

# Geometry

### 3D shapes

- Keep forgetting the difference between an edge, vertex and face? Make this helpful 3D visual aid so you'll always be reminded!
- Does your child recognise nets as 3D shapes? Have a go at making an icosahedron (plus many other shapes to be found here). How many edges, vertices and faces does it have?
- Perimeter and area - These step by step guides will help your child measure the perimeter and area of shapes.

### Angles

- Use this How To Use A Protractor Guide to help revise how to measure an angle then create an Angles Visual Aid to revise what an acute, right and obtuse angle looks like.

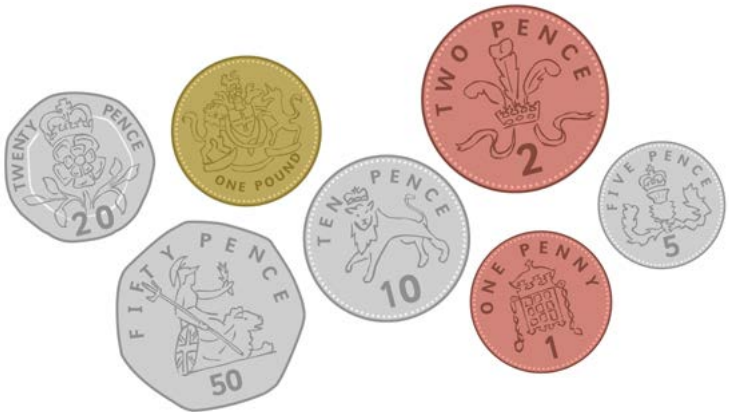
### Transforming Shapes

- Symmetry - These fun Reflection Symmetry Challenge Cards are creative and mathematical at the same time!
- Co-ordinates - Play this exciting co-ordinates game to get used to saying and writing grid references. You could also take the Capture The Island challenge relating to either perimeter or area.
- This helpful poster will help your child with translation, rotation and reflection skills.

# Measures

### Money

- Adding up coins of different values is an important life skill. Practise adding up and matching with the number amount using these cards.
- Make and roll the Money Dice Cube Nets and add the 2 amounts together. Challenge further by giving change from £5.00 or £10.00.



### Metric Units

- Laminate this Metric Units And Measurements Mat and use it as a reference.
- Use these cards to match mm, cm, m and km to equivalent measures. There is also a mg, g and kg set.

### Time

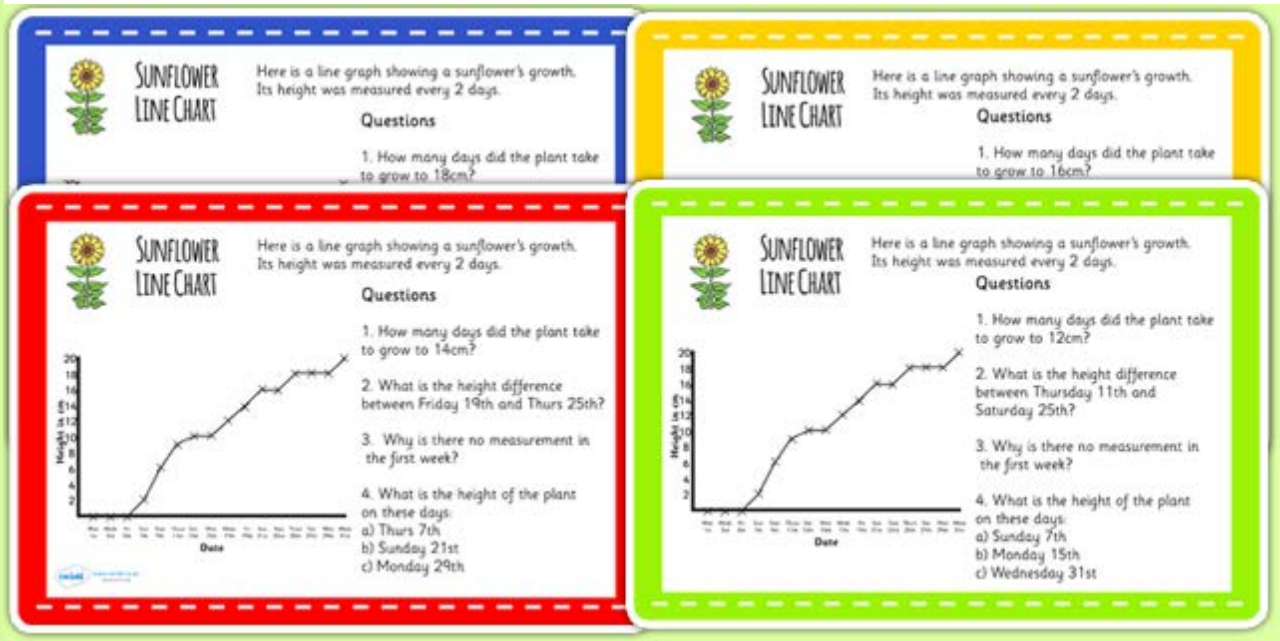
- Time - Create your own Roman Numerals Clock. Use it to tell the time to the nearest minute, then write the time as analogue and digital, in both 12 hour and 24 hour clock. Alternatively, make up this blank clock with minutes and hands and practise doing the same.
- Play with these fun 24 hour clock time loop cards.

# Algebra

Use these fun Algebra Domino Loop Cards to practice solving equations, see if your child can get back to where they started! Also have a look at similar sets such as the Equation Domino Loop Cards and Missing Number Domino Loop Cards.

# Statistics

- This pack of Pie Chart and Sunflower Line Graph Challenge Cards will help your child to interpret data in real life situations.
- Learn more about the Mode, Mean, Range And Median using this poster set then test knowledge using this fun Presentation quiz.




**Sun Flower Line Graph Challenge Cards**