



# Helpful Maths Resources Pack

## 3D Shape Cards

Use these cards to help your children become familiar with the names of various 3D shapes. There are many different ways you could use them - cover the name of each shape and ask children what each one is called; ask them to describe the properties of each shape - how many vertices does it have? How many edges and faces? Are they flat or curved?; ask them to find objects in real-life that are similarly shaped; challenge them to draw and label the properties of one of the 3D shapes.

## 3D Shape Nets

Help your children to understand how nets comprised of 2D shapes can turn into 3D shapes! You could make the whole set and then write property cards for each one, stating how many faces, edges and vertices they each have.

## Blank Clock Faces

These versatile sheets can be used to help your children learn to tell, draw and write the time. You could draw times on the clock faces that your children have to read, or on the sheets with lines underneath each clock they could write the time. Alternatively, you could write various times on the lines, and they have to draw that time on the clock face. There is also a template for you to make your own clock face, complete with hour and minute hands!

## Draw The Time

TIP: If you laminate this sheet or pop it into a plastic wallet, you can use a whiteboard pen (or something similar) so that it can be wiped clean and used repeatedly.

## British Coins / Coin Fans / Price Labels

The **Coin Fans** are a fun way of helping younger children to recognise the different coins. Simply cut them out and secure them together with a split pin or some string, then ask your children to find and show you the 50p coin, etc. The **Coin Cards** are very versatile - they could be used to add and subtract small amounts and even practise giving change in a role-play situation - why not set up your own shop using the included **Price Labels**?!

## Conversion Cards

These cards offer a useful reminder of how to convert to different units of measure for length, weight and capacity.

## Blank Measuring Cylinders

Challenge your children to draw or read given capacities on the measuring cylinders, giving them practise in understanding different scales. Ask further questions to challenge understanding, e.g. how much more would we need to add so the cylinder held 900ml? How many litres is this? (See the **Conversion Cards**.)

### Sliding Thermometer

Make these simple sliding thermometers so your children can position the red line themselves to show different temperatures!

### Dice Template

This range of templates are handy if you can't find any plastic dice to hand! Not only can they be used to play games (see our **FREE Educational Games Pack** on our website), but they can also be a game by themselves - throw them in the air, and add or multiply together the numbers that are showing. The more dice you use, the more challenging it becomes! There are also blank versions of each dice shape if your children wish to get creative.

### Fraction Walls

Use these colourful diagrams to help your children recognise and compare different fractions. You could ask them questions such as, 'Which is bigger - two fifths or three quarters?' or 'Can you find a fraction that is equivalent to (the same as) one third?' There are also blank fraction walls for children to fill in themselves.

### Hundred Squares

Included are some hundred squares with multiples of 2, 3, 5 and 10 shaded - can your children identify the pattern? Can they work out what the next multiple after 100 will be? There are also blank hundred squares for children to explore other multiple patterns themselves.

### Let's Make a Pictogram

Get your child busy collecting some data on the tally chart, which they can then turn into a pictogram (a type of graph where each vote is represented by an appropriate image in each square) or a bar chart. Suggested questions to collect information on: favourite colours, animals, fruits, etc.

### Maths Operations Cards

Ask your children to sort these cards into the same operation groups (+, -, x, ÷), or get them to make their own number sentences up using the cards (**Number Cards 1-100** might be handy for this activity).

### Maths Question Generator

Your children can create their own number sentences to solve with this Maths Question Generator! Includes a question dice to make, and two differentiated number grids.

### Number Fans 0 to 20

Use these number fans to help younger children read and recognise numbers up to 20, as well as practising their number bonds to 20, e.g. say a number between 0 - 20, and challenge your child to hold up the fan which shows the number that needs to be added to yours to make 20.

### Number Lines 0 to 30

These number lines can be used to help your children count up to and back from 30. They can also be used to help solve addition, subtraction, multiplication and division problems.



*PlanBee has lots more **FREE** games, activities and challenges to keep your child occupied and engaged. Go to [www.planbee.com/free-teaching-resources/freebees](http://www.planbee.com/free-teaching-resources/freebees) to find out more.*

### Number Machines HTO and THTO

These Number Machines can be made by cutting slots along the lines and threading the number strips through each slot. Children can then make any three- or four-digit number (depending on which Number Machine they are using).

### Number Tracing Worksheets

These sheets are perfect for younger children who are still learning how to write and form numbers correctly.

### Place Value Cards HTO

Your children can make their own three-digit numbers by layering up the cards (ensuring the pointed side of each card is aligned). This is also a useful way to show your children the value of each digit in a three-digit number.

### Place Value Blocks ThTHO

These visual representations of one, ten, one hundred and one thousand can be used to help your children understand the value of each digit in a four-digit number.

### Problem Solving Sheet

This handy problem-solving sheet takes your children step-by-step through how they might decide to tackle a maths question.

### Symbol Fans

Get your children confident with using the 'greater than', 'less than' and 'equal to' symbols with this easy-to-make fan. Use the **Number Cards 1-100** to make number sentences together using the symbols, e.g.  $20 > 12$ , or  $32 < 89$ .

### Ten Frames

Ten Frames (simply a  $2 \times 5$  grid) are a visual method to help younger children to understand the value of numbers from 1 to 10. There are many different interactive activities that you could do with your children. A conversation might go something like this: "I see you filled six of the squares. Is that more or less than 5? You're right – it's 5 and 1 more. How many squares are still empty? Oh! So 6 and 4 must make 10!"

### The Four Operations Check Grid

Write a number sentence in each section, one for each operation (+, -, x, ÷) and challenge your children to solve them, showing and explaining their working out. The number sentences can be made as simple or difficult as you wish!