

Online Links for Home Learning - Maths & Numeracy

General Resources

[The School Run - Primary Numeracy Glossary for Parents](#) - A guide to maths concepts taught in primary school.

BBC Bitesize - Content to support maths learning in:

- [Primary 2](#)
- [Primary 3](#)
- [Primary 4](#)

[BBC Games - Guardians: Defenders of Mathematica](#) - This game allows you to progress through various levels of difficulty in different areas of maths. It is a great resource for engaging learners with maths practice in a fun way.

Areas of the Maths/Numeracy Curriculum

(Click on the maths area you want to visit)

- [The Four Operations \(Addition, Subtraction, Multiplication & Division\)](#)
- [Place Value](#)
- [Estimation & Rounding](#)
- [Fractions](#)
- [Money](#)
- [Time](#)
- [Measurement](#)
- [Pattern & Sequence](#)
- [Shape](#)
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- [Directions, Angles & Turns](#)
- [Coordinates](#)
- [Data Handling](#)
- [Chance & Probability](#)
- [Equations](#)

● The Four Operations (Addition, Subtraction, Multiplication & Division)

- Addition & Subtraction Strategies

- [Maths is Fun - Addition Tips & Tricks](#) - Explanations and illustrations of different mental addition strategies (*many of these strategies can also be reversed to be used for **subtraction***).
- [The School Run - Teachers' Tips for Subtraction](#) - Information about the language of subtraction and strategies for subtraction calculations.

- Addition & Subtraction Games

- [Top Marks - Fruit Splat Subtraction](#) - Splat the fruits that show the correct answer to the sum (various levels)
- [Top Marks - Bingo Addition](#) - This bingo game poses addition sums in a variety of ways.
- [ICT Games - Save the Whale](#) - A game to practise number bonds within 10.
- [ICT Games - Catapult Countdown](#) - A game that practises counting on to the nearest 10.
- [ICT Games - Balloon Flight Addition](#) - A game that allows children to practise adding three single-digit numbers.
- [Top Marks - Subtraction Grids](#) - A timed, missing number subtraction game.
- [Top Marks - Fruit Splat Subtraction](#) - Splat the fruits that show the correct answer to the subtraction sum (various levels).
- [ICT Games - Smoothie Maths](#) - A game for children to practise addition and subtraction facts up to 100.
- [ICT Games - Twilight Take-Away](#) - A game that uses word problems to encourage children to make the link between addition and subtraction (inverse operations).
- [Top Marks - Number Fact Families](#) - A game that encourages children to make the link between addition and subtraction (inverse operations).

- Multiplication & Division Strategies

- [Maths is Fun - Multiplication Tips & Tricks](#) - Explanations and illustrations of different mental multiplication strategies.
- [Ducksters Kidsmath - Division Tips & Tricks](#) - Strategies and tricks for working out division calculations.

- [YouTube - Grouping & Sharing](#) - This video explains the difference between the division strategies of grouping and sharing.
- [BBC Bitesize - How to Multiply & Divide by 0, 1, 10 & 100](#) - Video, explanations and activities to support multiplication and division.

- **Multiplication & Division Games**

- [Top Marks - Coconut Multiples](#) - A game to practise recall of times tables facts.
- [Maths Frame - Super Maths Bowling](#) - A very flexible game, offering lots of tweaks to allow you to practise different times tables at various levels.
- [ICT Games - Tables Tennis](#) - A two-player game to practise quick-fire times tables facts.
- [ICT Games - Archery Doubles](#) - A game for practising doubles facts.
- [Snappy Maths - Share the Sweets](#) - This game uses pictures and sum layouts to support division by sharing.
- [Top Marks - Sharing](#) - A game with simple division problems, solved by sharing objects into groups.

- **Games Featuring All Four Operations**

- [ICT Games - Funky Mummy](#) - A game to practise quick recall of addition, subtraction, multiplication and division facts.
- [Top Marks - Hit the Button](#) - Timed games to develop quick-fire skills in number bonds, times tables, doubling and halving, and multiplication and division facts.
- [Top Marks - Mental Maths Train](#) - Games that use a variety of vocabulary associated with addition, subtraction, division and multiplication.

● **Place Value**

- **Videos/Learning Materials**

- [YouTube - Place Value Song](#) - A song to help children to understand place value.

- **Games**

- [ICT Games - Shark Numbers](#) - A game that asks children to link place value to digits.
- [Top Marks - Place Value Basketball](#) - A game that allows children to practise what they have learned about place value.

● Estimation & Rounding

- Videos/Learning Materials

- [BBC Bitesize - Rounding & Estimating](#) - Videos, explanations and activities to support work on rounding and estimation.
- [YouTube - Rounding Numbers Song](#) - A song to help you remember how to round numbers to the nearest 10.
- [YouTube - Rounding up or down to the nearest 10 or 100](#) - Video explaining the process of rounding to the nearest 10 or 100.
- [YouTube - Estimating when adding large numbers](#) - Video explaining the process of rounding to estimate addition of large numbers.
- [YouTube - Estimating when subtracting large numbers](#) - Video explaining the process of rounding to estimate subtraction of large numbers.

- Games

- [Top Marks - Rocket Rounding](#) - A multiple choice game focusing on rounding numbers to 10, 100 and whole numbers (rounding decimals).
- [Top Marks - Dartboard Rounding](#) - Round the numbers on the middle ring of the dartboard up or down.

● Fractions

- Videos/Learning Materials

- [BBC Bitesize - Fractions](#) - Video, explanations and activities to support work on fractions.
- [YouTube - Converting Fractions to Decimals Song](#) - A song to support converting fractions into decimals.

- Games

- [Top Marks - Fraction Matchers](#) - A matching game where fractions and images of fractions are matched.
- [Snappy Maths - Finding Halves & Quarters](#) - In this game, you need to identify what fraction of a shape is shaded.
- [ICT Games - Firepit Fractions](#) - Identify the image that matches the fraction.

● Money

- Videos/Learning Materials

- [BBC Bitesize - Money](#) - Videos, explanations and activities to support work on money.

- Games

- [ICT Games - Custom Car Garage](#) - Over five levels, from lower to higher value coins and prices, choose coins to total the prices of selected car parts.
- [Top Marks - Toy Shop Money Game](#) - Two different game modes let you practise making amounts and working out what change to give.
- [Top Marks - Coins Game](#) - Sort, order and count coins.
- [Maths Frame - 2 Step Money Problems](#) - A challenging game that combines money word problems and making amounts from a selection of coins.

● Time

- Videos/Learning Materials

- [BBC Bitesize - Time](#) - Video, explanations and activities to support work on time.

- Games

- [Maths Frame - Telling the Time](#) - A game with various different levels of difficulty that covers analogue and digital time.
- [ICT Games - Hickory, Dickory, Clock](#) - A time-telling game with three levels of difficulty.
- [Roy the Zebra - Days of the Week](#) - An activity to help you recognise and order the days of the week.
- [Roy the Zebra - Months of the Year](#) - An activity to help you recognise and order the months of the year.

● Measurement

- Videos/Learning Materials

- [BBC Bitesize - Measure](#) - Videos, explanations and activities to support work on measure.

- Games

- [SplashLearn - Measurement Games](#) - A host of games at various levels on different types of measurement.
- [ICT Games - Mostly Postie](#) - Read the scales to find the weight of the parcels.
- [ICT Games - Capacity Countdown](#) - Read the measurement on the tank to find out how full they are.
- [Top Marks - Measuring in Centimetres](#) - Practise the correct way to use a ruler to measure objects.
- [Transum - Reading Scales](#) - Lots of practise of reading different types of scales.

● Pattern & Sequence

- Videos/Learning Materials

- [BBC Bitesize - How can I use number patterns to work out a sequence?](#) - Video, explanation and activity to support work on number pattern/sequence.
- [BBC Bitesize - What is tessellation?](#) - Video and activity to support work on tiling.

- Games

- [Math Learning Center - Pattern Shapes](#) - Making your own patterns and use shapes to tessellate.
- [Top Marks - Shape Patterns](#) - Complete the shape patterns.
- [Top Marks - Paint the Squares](#) - Click on numbers in the 2, 3, 4, 5 or 10 times table to see the pattern they make.
- [Top Marks - Caterpillar Ordering](#) - Use the "Sequencing" part of this game to practise counting in steps of 2, 5 and 10.

● Shape

- Videos/Learning Materials

- [BBC Bitesize - What are 2D shapes?](#) - Video, explanation and activities to support work on 2D shape.
- [BBC Bitesize - What is the difference between a 2D shape and a 3D object?](#) - Video, explanation and activities to support work on 2D and 3D shape.
- [BBC Bitesize - What are the properties of 3D shapes?](#) - Video, explanation and activities to support work on 3D shape.

- Games

- [PBS Kids Odd Squad - Pienado](#) - Use different 2D shapes to fill gaps in the forcefield .
- [ICT Games - Shifting Shapes](#) - Use the visual clues to identify 2D and 3D shapes.
- [Starfall - Enviro-Shapes](#) - Match the 2D and 3D shapes to real-life examples.

● Symmetry

- Videos/Learning Materials

- [BBC Bitesize - What makes a shape symmetrical?](#) - Video, explanation and activity to support work on symmetry.

- Games

- [Top Marks - Symmetry - Matching](#) - Match the correct image to mirror the half picture, shape or pattern.
- [Top Marks - Symmetry - Sorting](#) - Sort the pictures, shapes or letters into the symmetrical or non-symmetrical categories.
- [Maths Frame - Symmetry](#) - Create your own symmetrical patterns.

● Directions, Angles & Turns

- Videos/Learning Materials

- [BBC Bitesize - How to use directions and turns](#) - Video, explanation and activity to support work on directions.
- [NRich - Turning Man](#) - A resource that illustrates what happens when an object is given a quarter turn (90 degrees).

- Games

- [ICT Games - Deadly Doors](#) - Follow the instructions to turn dials on doors clockwise or anti-clockwise by a quarter, a half, a three-quarter or a whole turn.

● Coordinates

- Videos/Learning Materials

- [BBC Bitesize - How do I use grid references on a map?](#) - Video, explanation and activity to support work on coordinates.
- [Scootle - Use a Grid Map](#) - Explanation on grid references followed by an activity.

- Games

- [Top Marks - Coordinate Grids](#) - A variety of contexts for practising coordinates.

● Data Handling

- Videos/Learning Materials

- [BBC Bitesize - How do I record and display data?](#) - Video, explanation and activity to support work on data handling.
- [ICT Games - Sandwich Statistics](#) - This site produces random lunchboxes which can then be used to demonstrate different ways of displaying data.

- Games

- [Top Marks - Pictograms](#) - Answer questions about data from various categories displayed in horizontal or vertical pictograms using different scales.
- [Top Marks - Bar Charts](#) - Answer questions about data from various categories displayed in horizontal or vertical bar charts using different scales.
- [Top Marks - 2D Shapes Carroll Diagrams](#) - Sort 2D shapes into a Carroll diagram using properties as criteria.

● **Chance & Probability**

- **Videos/Learning Materials**

- [BBC Bitesize - Probability](#) - Video, explanations and activity to support work on rounding and estimation.

- **Games**

- [Top Marks - The Slushy Sludger](#) - Use simple probability words - yes, no, maybe - to indicate the chances of getting a specific stomach-turning slushy.
- [Top Marks - Vile Vendor](#) - Use what you have learned about chance and probability to work out the likelihood of getting one of a range of unpleasant drinks from a vending machine.

● **Equations**

- **Videos/Learning Materials**

- [BBC Bitesize - Algebra](#) - Videos, explanations and activities to support work on equations.

- **Games**

- [Top Marks - Patterns, Relationships and Functions](#) - Use the number clues to work out what rule the function machine is using.
- [Math Games - Solve for the Variable with Addition & Subtraction](#) - Find x in a series of addition and subtraction equations.
- [BBC Games - Guardians: Defenders of Mathematica](#) - This game covers many areas of maths. Visit the Ancient City of Algebra for practise on equations.