Helping your child at home with

Maths

Encourage regular practice of core skills (little and often)

- Number bonds (10, 20, 100)
- Counting (1s, 2s, 5s, decimals, negatives)
- Times tables
- Doubling and halving
- Estimating and mental maths
- Fractions in real life (when cooking, sharing, etc)
- Spotting patterns
- Games (especially board and card games)
- Telling the time (analogue)
- Money and real-life maths

Struggling with maths problems is normal.

Thinking matters more than speed.

Methods may look slightly different, but the maths is the same.

Core skills taught each academic year with practical ideas for home

Skills in bold focus on number sense and are the most important building blocks for success in maths.

Maths builds step by step. Each year's learning relies on children being confident with the learning from the year before. Children must be secure in the previous year's core skills before they can move on and understand the current year's learning.

Reception

- **Count reliably to 20 and beyond.**
- **Recognise and write numbers to 20.**
- **Understand one more and one less than a given number.**
- **Use language like more than, less than, equal to.**
- **Add and subtract single-digit numbers using objects or fingers.**
- Recognise and name basic 2D and 3D shapes.
- Use everyday language to describe size, weight, capacity, position, distance, time and money.
- Recognise, create and describe simple patterns.

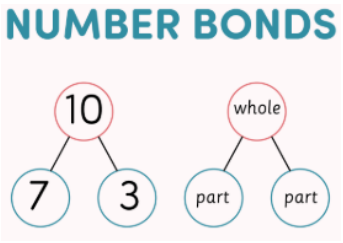
Focus: Counting to 20+, simple addition and subtraction, early mathematical vocabulary.

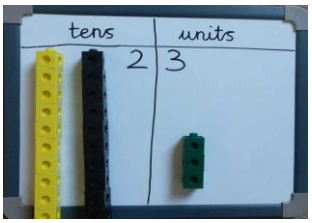
Activities at home:

- Count forwards and backwards during daily routines.
- Write numbers in chalk, sand, or crayons.
- Add two groups of objects (e.g., 3 + 2).
- Play 'one more, one less' with toys or snacks.
- Build patterns or pictures using shapes.
- Comparison games: find something bigger than their hand and something smaller than their pencil; pick two objects and guess which is heavier/lighter or which item is further away/nearer
- Use cups and jugs to fill up and talk about "full" and "empty"
- Sorting Game: sort toys into "big" and "small" baskets.
- Hide and seek with toys and use positional language to describe where they are.
- Describe the routines of the day using language of time ("after lunch", "before bedtime").

Key Stage 1: Year 1

- **Count, read and write numbers to 100.**
- **Count in 2s, 5s and 10s.**
- **Identify one more and one less than a number.**
- **Add and subtract within 20.**
- **Solve simple one-step problems (using +, −, =).**
- Recognise and know the value of coins and notes.
- Tell the time to the hour and half past.
- Recognise and name common 2D and 3D shapes.
- Begin to understand halves and quarters.



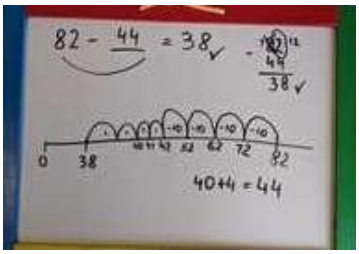


Activities at home:

- Practise number bonds to 10.
- Count objects, toys, pasta, etc in 2s, 5s, and 10s
- Tell the time to o'clock and half past.
- Measure objects using pencils or spoons.
- Sort coins, play shops, and practise giving change.
- Create and read simple patterns (AB, ABB, ABC).
- Talk about 'more' and 'less'.
- Add and subtract objects within 20.
- Play shape hunts – 2D and 3D shapes.
- Cut cakes, pizza, playdoh, etc into halves and quarters.

Key Stage 1: Year 2

- **Read, write and understand numbers up to 100.**
- **Use place value to understand tens and ones.**
- **Recall and use number bonds to 20.**
- **Add and subtract 2-digit numbers.**
- **Recall 2, 5, and 10 times tables.**
- **Use multiplication and division facts to solve problems.**
- **Recognise, find, name and write fractions ($\frac{1}{2}$, $\frac{1}{4}$, $\frac{3}{4}$, $\frac{1}{3}$).**
- Recognise and use symbols for £ and p; combine amounts of money.
- Tell the time to the nearest 5 minutes.
- Describe position, direction and movement.
- Interpret simple pictograms, tally charts, block diagrams.

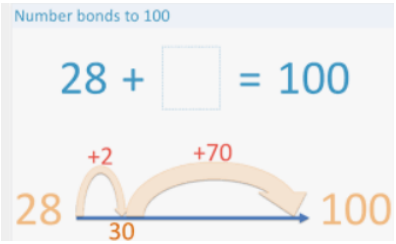


Activities at home:

- Practise number bonds to 20
- Skip count in 2s, 3s, 5s, and 10s.
- Practise 2, 5 and 10 times tables
- Make arrays for multiplication (e.g., 3 rows of 4).
- Add and subtract within 100 using objects or drawings
- Tell the time to o'clock, half past, quarter past, quarter to
- Measure objects using rulers (cm)
- Weigh ingredients when cooking
- Use coins to make amounts and find change
- Find halves, quarters and thirds of objects and amounts
- Create and describe simple number and shape patterns

Key Stage 2: Year 3

- **Count in 4s, 8s, 50s, and 100s.**
- **Recognise place value in 3-digit numbers (hundreds, tens, ones).**
- **Add and subtract numbers up to 3 digits.**
- **Recall 3, 4, and 8 times tables (and related division facts).**
- **Use written methods for addition and subtraction.**
- **Begin using column multiplication and short division.**
- **Recognise and find unit fractions and non-unit fractions of shapes and numbers.**
- Measure and compare length, mass, volume, and time.
- Tell and write the time to the nearest minute.
- Identify right angles, parallel and perpendicular lines.
- Interpret and present data using bar charts and tables.

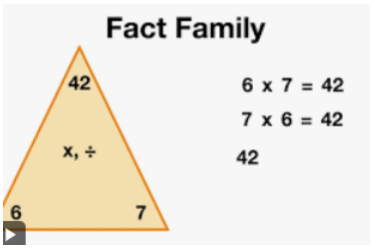


Activities at home:

- Practise 2, 3, 4, 5, 8 and 10 times tables
- Use number bonds to 100
- Add and subtract mentally and with written methods
- Tell the time to the nearest 5 minutes
- Find simple fractions of amounts (½, ¼, ⅓)
- Estimate and measure length, mass and capacity
- Read scales on measuring jugs and rulers
- Compare numbers using < > and =
- Spot patterns in times tables
- Play board and card games

Key Stage 2: Year 4

- **Recognise place value in 4-digit numbers (thousands).**
- **Round numbers to the nearest 10, 100, or 1000.**
- **Add and subtract 4-digit numbers using formal written methods.**
- **Recall all times tables up to 12 × 12 and related division facts.**
- **Use factors and multiples in multiplication/division.**
- **Recognise and use fractions (including equivalent fractions).**
- **Add and subtract fractions with the same denominator.**
- **Understand simple decimal notation (e.g. 0.1, 0.01).**
- Convert between different units of measure (km/m, hr/min).
- Identify acute, obtuse, and right angles.
- Classify shapes by properties (including symmetry).
- Interpret line graphs.

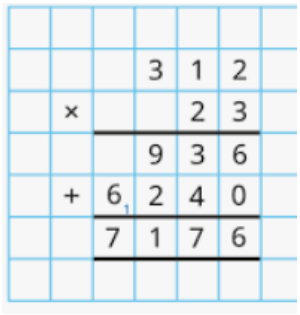


Activities at home:

- Practise all times tables up to 12 × 12
- Use number bonds and fact families
- Add and subtract larger numbers
- Multiply and divide using known facts
- Tell the time to the nearest minute
- Find fractions of amounts
- Convert simple units (cm to m, g to kg)
- Read and create simple graphs
- Estimate answers before calculating
- Solve real-life word problems

Key Stage 2: Year 5

- **Read, write, order and compare numbers up to 1,000,000.**
- **Round numbers to the nearest 10, 100, 1000, 10,000, 100,000.**
- **Add and subtract numbers with more than 4 digits.**
- **Multiply up to 4-digit numbers by 1- or 2-digit numbers using formal methods.**
- **Divide up to 4-digit numbers by 1-digit numbers (with remainders).**
- **Identify prime, composite, square, and cube numbers.**
- **Compare and order fractions; convert between mixed numbers and improper fractions.**
- **Add and subtract fractions with different denominators.**
- **Read and write decimal numbers up to 2 decimal places; link to fractions and percentages.**
- Convert between metric units (and estimate imperial equivalents).
- Calculate perimeter and area of rectangles and composite shapes.
- Use angles around a point and on a straight line.
- Interpret and draw line graphs and tables; begin simple timetables.

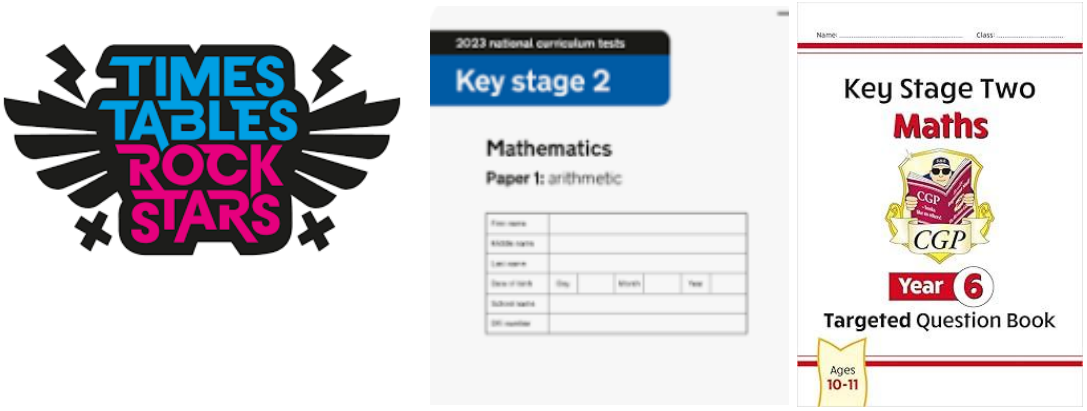


Activities at home:

- Keep times tables fluent
- Practise long addition and subtraction
- Multiply and divide by 10, 100, 1000
- Work with decimals and tenths/hundredths
- Add and subtract decimals (money context is great)
- Find fractions, decimals and percentages of amounts
- Read timetables and calculate durations
- Estimate and check answers
- Talk through problem-solving steps
- Use money for budgeting and change

Key Stage 2: Year 6

- **Read, write, and understand numbers up to 10,000,000.**
- **Use negative numbers in context and calculate across zero.**
- **Perform multi-step problems using all four operations.**
- **Identify common factors, multiples, and prime numbers.**
- **Use knowledge of order of operations (BODMAS).**
- **Simplify fractions and find equivalent fractions.**
- **Add, subtract, multiply, and divide fractions.**
- **Multiply and divide decimals by whole numbers.**
- **Convert between fractions, decimals, and percentages.**
- Solve problems involving ratio, proportion, and scaling.
- Calculate area, perimeter, and volume.
- Recognise and draw 2D shapes from nets of 3D shapes.
- Use and interpret pie charts and line graphs.
- Calculate mean average.
- Use coordinates in all four quadrants and apply to translation/reflection.



Activities at home:

- Keep times tables sharp
- Practise all four operations with larger numbers
- Learn the relationships between fractions, decimals and percentages
- Solve multi-step word problems
- Use ratio in simple contexts (recipes, sharing)
- Convert units (length, mass, time)
- Use negative numbers (temperature, lifts)
- Practise mental maths strategies
- Explain methods out loud
- Check answers using inverse operations


Please avoid!
"This is how I was taught"
"I was always bad at maths at school"
I can't do maths...ask your .... instead
"What's the answer?" "That was quick!"
Say instead...
"Show me how your teacher showed you"
"Can you teach me?"
Let's ask... (google, chatgpt, youtube, teacher)
Well done for: trying, effort, sticking with it!
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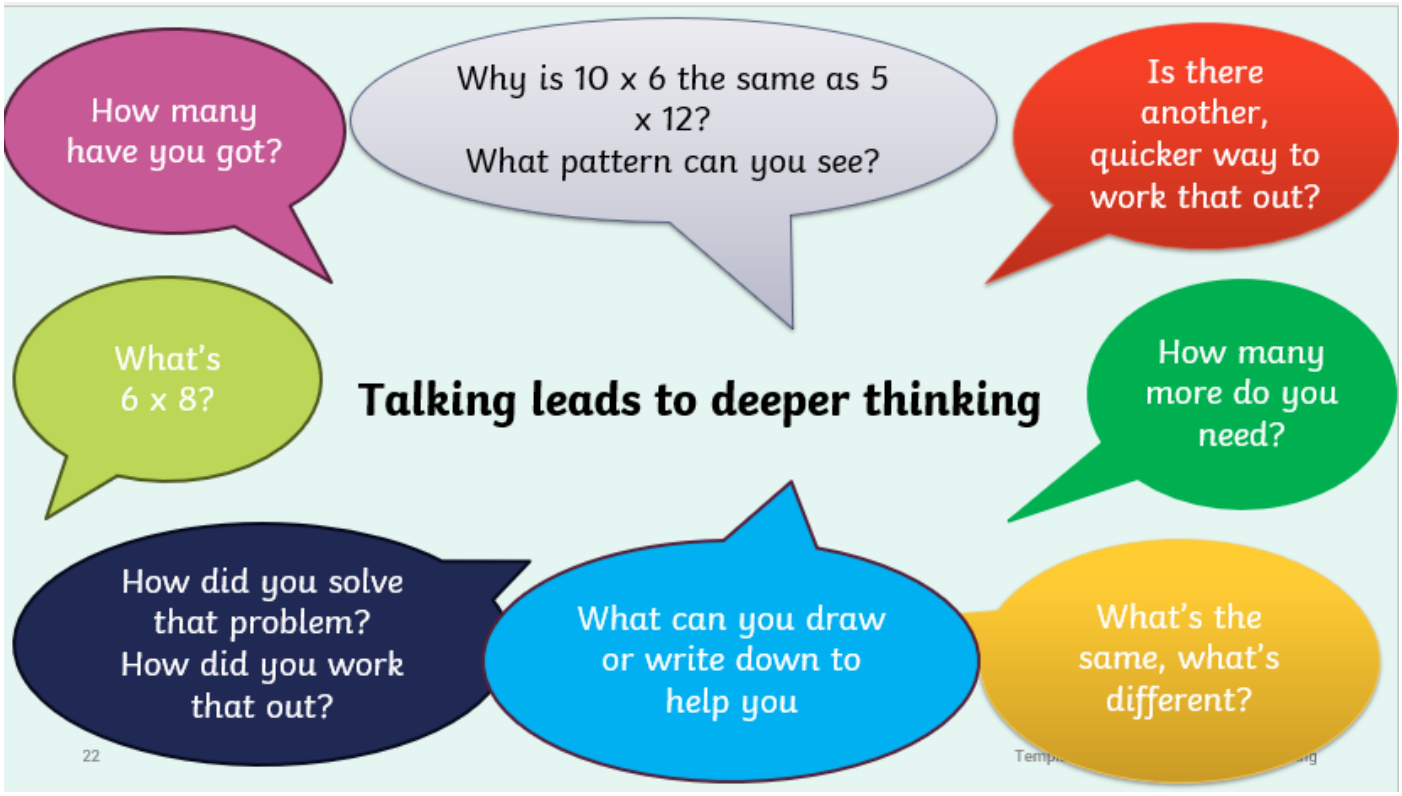
How many have you got?
Why is 10 x 6 the same as 5 x 12? What pattern can you see?
Is there another, quicker way to work that out?
What's 6 x 8?
Talking leads to deeper thinking
How many more do you need?
How did you solve that problem? How did you work that out?
What can you draw or write down to help you
What's the same, what's different?
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Maths at home