



## Churchside Federation

Mundford & Gooderstone Church of England Primary Academies

# Maths Essentials for Year R

During the year, we expect the children to learn the following:

- Count and order numbers to 20.
- Add and subtract numbers to 10.
- Solve doubling & halving problems.
- Describe and name 2D shapes.
- Make repeating patterns.
- Compare objects of different sizes and weights.
- Use clocks to tell the time to the nearest hour.
- Recognise coins of different values.
- Know the days of the week and months of the year.

Ideas for practising at home:

- Recognise and read numbers wherever you are.
- Spot numbers on doors and cars.
- Play snakes and ladders.
- Count objects at home or when shopping.
- Sing days of the week songs and number songs.
- Draw shapes in the sand/mud.



# Maths Essentials for Year 1

During the year, we expect the children to learn the following:

- Read, count and write numbers to 100.
- Count in 2s, 5s and 10s.
- Find less and more than a number (e.g. 1 more, 10 more).
- Find doubles and halves of numbers and objects.
- Recognise 2D and 3D shapes.
- Telling the time (to the nearest hour or half hour).
- Recognise coins.

Children also need to use what they have learnt in previous years. These are some of the things they should already know:

- Recognise, count and write numbers to 20.
- Understand addition means more.
- Understand subtraction means less.
- Recognise and name common shapes.
- Know the days of the week and the months of the year.

Ideas for practising at home:

- Telling the time - what time do you go to bed? go to school? etc.
- Finding money to pay for items in shops.
- Play Bingo.
- Play Snakes and Ladders (or any counting game).
- Cooking and weighing ingredients.
- Cut up pizzas/fruit into halves and quarters.
- Share out bags of sweets.



# Maths Essentials for Year 2

During the year, we expect the children to learn the following:

- Recognise the value of each digit in a number (e.g. hundreds, tens, ones).
- Remember the 2s, 3s, 5s and 10 times tables.
- Find doubles, halves, quarters and thirds of numbers, shapes and objects.
- Recognise and describe 2D and 3D shapes.
- Tell the time to the nearest quarter hour (digital & clock face).
- Use coins: making totals in different ways & giving change.
- Know units for measuring length/height (m & cm), weight (kg & g), capacity (l & ml) and temperature ( $^{\circ}\text{C}$ ).

Children also need to use what they have learnt in previous years. These are some of the things they should already know:

- Recognise, count and write numbers to 100.
- Understanding addition/subtraction means more/less.
- Doubles and halves.
- Counting in 2s, 5s, and 10s.
- Recognising coins.

Ideas for practising at home:

- Telling the time - what time do you go to bed? go to school? etc.
- Find money to pay for items in shops.
- Play Bingo & board games.
- Cooking and weighing ingredients accurately.
- Cut up pizzas/fruit into halves, quarters and thirds.
- Share out bags of sweets.



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# Maths Essentials for Year 3

During the year, we expect the children to learn the following:

- Count in 4s and 8s and know the 4 and 8 times table.
- Recall pairs of numbers that total 100.
- Read & write fractions in both numbers (e.g.  $\frac{3}{4}$ ) and words (three-quarters) and relate them to a picture or group of objects.
- Tell the time to the nearest minute (digital & clock faces).
- Know that there are 100cm in a metre, 10mm in cm, 1000mm in a metre and 1000m in a kilometre.
- Write amounts of money in both pence (e.g. 735p) and pounds (£7.35).

Children also need to use what they have learnt in previous year.

These are some of the things they should already know:

- Remember the 2s, 3s, 5s and 10 times tables.
- Find doubles, halves, quarters and thirds of numbers, shapes and objects.
- Recognise and describe 2D and 3D shapes.
- Recognise coins.
- Use the four compass points to give directions.

Ideas for practising at home:

- Telling the time - what time do you go to bed? go to school? etc.
- Shopping - how much change will they get?
- Play board games & games where they have to keep score.
- Cooking and weighing ingredients accurately.
- Look at maps, draw their own & give directions (North, South, East, West).



# Maths Essentials for Year 4

During the year, we expect the children to learn the following:

- Read and convert between analogue and digital, 12 and 24 hour clocks.
- That area is the space (squares) inside a shape & perimeter is the distance around the edge of a shape.
- Simple conversion between fractions & percentages (e.g.  $\frac{1}{2} = 50\%$ ,  $\frac{1}{4} = 25\%$ , 1 whole = 100%,  $\frac{1}{10} = 10\%$ ).
- Know all times tables (up to 12x).
- Relationship between metric units of measure (e.g. metres, centimetres, millimetres & kilometres; litres & millilitres; grams & kilograms).

Children also need to use what they have learnt in previous years.

These are some of the things they should already know:

- Read the time on digital and analogue clocks.
- The relationship between units used for measuring length, weight & capacity (e.g. how many millilitres in a litre or centimetres in a metre)
- Recognise coins and notes.
- The months of the year (including how many days in each month).
- Recognise & name 2D and 3D shapes.
- Doubles & halves.

Ideas for practising at home:

- Read clocks & work out time differences (e.g. how long until ...)
- Measuring accurately for cooking, DIY etc.
- Paying for items in shops, calculating change, finding the amount required.
- Playing darts & any games that involve keeping score.



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# Maths Essentials for Year 5

During the year, we expect the children to learn the following:

- Negative numbers (e.g. in the context of temperatures).
- The relationship between common fractions, percentages and decimals (e.g.  $\frac{1}{5} = \frac{20}{100} = 20\% = 0.2$ ).
- Addition and subtraction of money using decimals.
- Converting between units of measure, for example turning metres into millimetres, grams into kilograms or hours into minutes.

Children also need to use what they have learnt in previous years. These are some of the things they should already know:

- Times Tables (up to  $\times 12$ ).
- Telling the time (on digital & analogue clocks).
- The number of minutes in an hour (& working out how many minutes until the next hour).
- Simple conversion between percentages and fractions.
- Measure accurately using the appropriate metric units.
- Money: the values of all coins and notes.

Ideas for practising at home:

- Using money to pay for items and calculate change.
- Following recipes, accurately measuring ingredients.
- Compare the temperature on different days or in different places and work out the difference between temperatures (including those that cross 0).
- Find percentage discounts in shops.
- Work out how long TV programmes or films last.



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# Maths Essentials for Year 6

During the year, we expect the children to learn the following:

- The parts of a circle.
- What the angles add up to: for right angles, along a line, around a point and in triangles and quadrilaterals.
- Know that 8 km is approximately 5 miles, and 3 miles is roughly 5 km.
- The order you do operations in: BODMAS.

Children also need to use what they have learnt in previous year. These are some of the things they should already know:

- All times tables.
- Multiplying & dividing numbers (including decimals) by 10, 100, 1000 etc.
- Converting between metric measures.
- Recognising and being able to name 2D and 3D shapes.
- Recognising acute, obtuse & right angles.
- Common fraction, decimal & percentage equivalences (e.g.  $\frac{1}{4} = 0.25 = 25\%$ ).

Ideas for practising at home:

- Work out change from (for example) £5 and £10.
- Read timetables.
- Follow a recipe to cook: measuring ingredients, working out how much for more/less people, cooking times.
- Telling the time on both analogue and digital clocks & being able to work out how long until something happens.