St John's
Church of England
Academy

Part of the

Durham &
Newcastle
Diocesan
Learning
Trust

Mental Maths Targets by Year Group

Contents

Introduction

These are the mental maths targets that children are expected to know by the end of each academic year. Mental maths refers to the rapid recall of facts that children should know off by heart or carry out a quick calculation in their head to find the answer.

Each term, classes focus on 'key targets.' In order to support your child at home, we provide links to videos, which show how these objectives are taught. We encourage parents to view them with their child and practise as part of their homework. These videos can be found on the website by [clicking here.](#)

For the majority of targets in Years 1 - 6, hyperlinks to videos demonstrating how we teach them are provided for parents to access. If the target is in blue and underlined, simply click it to open the video. This will ensure a consistent approach between school and home.

For further information on how these strategies are taught or what they mean, please see your child's class teacher.

Three-Year-Old Nursery

Count to 10 independently.

Recognise numbers to 5.

Subitise up to 3 objects.

Know by heart the number of sides of a square, rectangle, triangle and circle.

Reception

All of the above and:

Subitise quantities to five.

Automatically recall number bonds to five.

Automatically recall some number bonds to ten.

Verbally count beyond twenty.

Understand and recognise odd and even numbers.

Year 1

All of the above and:

Count to and across 100, forwards and backwards, beginning with 0, 1, or from any number.

Count, read and write numbers to 100 in numerals.

Count in multiples of 2s.

Count in multiples of 5s.

Count in multiples of 10s.

Given a number, identify 1 more.

Given a number, identify 1 less.

Read and write numbers from 1 to 20 in numerals and words.

Know number bonds and related subtraction facts within 20.

Add and subtract one-digit and two-digit numbers to 20, including 0.

Recognise and name common 2-D shapes.

Recognise and name common 3-D shapes.

Year 2

All of the above and:

Count forwards and backwards in steps of 2 from zero.

Count forwards and backwards in steps of 3 from zero.

Count forwards and backwards in steps of 5 from zero.

Count forwards and backwards in steps of 10 from zero.

Recognise the place value of each digit in a two-digit number.

Compare and order numbers from 0 up to 100 using and = signs.

Read and write numbers to at least 100 in numerals and in words.

Recall and use addition and subtraction facts to 20.

Recognising odd and even numbers.

Know the number of minutes in an hour and the number of hours in a day.

Know the 2 times tables in any order.

Know the 5 times tables in any order.

Know the 10 times tables in any order 2.

Year 3

All of the above and:

Count from 0 in multiples of 4.

Count from 0 in multiples of 8.

Count from 0 in multiples of 50.

Count from 0 in multiples of 100.

Recognise the place value of each digit in a 3-digit number.

Read and write numbers up to 1,000 in numerals and in words.

Add and subtract numbers mentally.

Count up and down in tenths.

Know the number of seconds in a minute, and days in each month, year and leap year.

Know the 3 times tables in any order and corresponding division facts.

Know the 4 times tables in any order and corresponding division facts.

Know the 8 times tables in any order and corresponding division facts.

Year 4

All of the above and:

Count in multiples of 6.

Count in multiples of 7.

Count in multiples of 6.

Count in multiples of 9.

Count in multiples of 25.

Count in multiples of 1000.

Count backwards through 0 to include negative numbers.

Recognise the place value of each digit in a four-digit number.

Use place value, known and derived facts to multiply and divide mentally.

Recognise factor pairs.

Count up and down in hundredths.

Recognise and write decimal equivalents to 1/4, 1/2, ¾.

Know the 6 times tables and corresponding division facts.

Know the 7 times tables and corresponding division facts.

Know the 9 times tables and corresponding division facts.

Know the 11 times tables and corresponding division facts.

Know the 12 times tables and corresponding division facts.

Year 5

All of the above and:

Read, write, order and compare numbers to at least 1 million and determine the value of each digit.

Count forwards or backwards in steps of powers of 10 for any given number up to 1 million.

Add and subtract numbers mentally with increasingly large numbers.

Identify multiples.

Identify factors.

Know and use the vocabulary of prime numbers, prime factors and composite numbers.

Recall prime numbers up to 19.

Multiply and divide numbers mentally, drawing upon known facts.

Multiply whole numbers and those involving decimals by 10, 100 and 1,000.

Divide whole numbers and those involving decimals by 10, 100 and 1,000.

Read and write decimal numbers as fractions.

Recognise and use square numbers and notation for squared (^{2}).

Recognise cube numbers, and the notation for cubed (^{3}).

Know all times tables to 12 x 12 and the corresponding division facts.

Year 6

All of the above and:

Read, write, order and compare numbers to 10,000,000 and know value of digit.

Perform mental calculations, including with mixed operations and large numbers.

Identify common factors.

Identify common multiples.

Identify prime numbers to 100.

Identify the value of each digit in numbers given to 3 decimal places.

Recall and use equivalences between simple fractions, decimals and percentages.