

Parent Workshop

*Supporting your child
in Mathematics*

Deneholm Primary School

Calculation Policy

2019/2020



Autumn 1 Curriculum Meetings

This workshop will give advice, subject knowledge and resources for you to apply to your child's year group curriculum.

If you are unfamiliar with your child's year group statements or were unable to attend the year group meeting, you can find the statements on the below link.

<https://www.gov.uk/government/publications/national-curriculum-in-england-mathematics-programmes-of-study/national-curriculum-in-england-mathematics-programmes-of-study>

Children's motivation to learn maths is higher with students whose parents discuss with them how mathematics can be applied to everyday life or who obtain mathematics materials for them. (Clinical Psychologist, 2015)

Department for Education (2018)

33% of parents felt confident in helping with homework

94% of parents were confident that their involvement would help their children at school

38% of parents reported they did not understand their children's school work

Maths Calculation Policy

Based on parent requests and to ensure consistency, we have created a maths calculation policy. It will be released at the end of Autumn 2. Parents will be informed when it is available to view.

This document hopes to provide a progression of operations which your child will follow throughout their time at Deneholm. If your child finds a particular method challenging, it is possible to go into the previous year group to consolidate and practise strategies covered before introducing new methods. It is important not to move your child onto the next year as we work to mastering the curriculum rather than extending into the next year group. We hope that this document enables you to support your child with the exact methods being taught in their classroom. It is important that they are not introduced to methods that are not in this policy as this will avoid confusion and most importantly, following the policy will help your child to progress.

Mathematical Vocabulary



addition
add
more
and
plus
make
sum
altogether
total
increase



subtraction
subtract
minus
take away
decrease
take from
fewer
reduce
difference between



division
share
group
divide
divide into
divide by
divisible by
share equally



multiplication
times
product
lots of
times table
multiply
multiply by
groups of

We need to encourage children to explain what they are doing and why they are doing it. We must offer them opportunities to use mathematical language frequently, for example by participating in paired activities, group discussions and games as well as other dialogues. This will help children to learn new vocabulary, to use words they already know more accurately, and to express new ideas and new thinking.

subtract

take away

how many are left/left over?

how many have gone?

one less, two less, ten less ...

how many fewer is ... than ...?

how much less is ...?

difference between

equals

is the same as

number bonds/pairs

missing number

Multiplication and division

multiplication

multiply

multiplied by

multiple

division

dividing

grouping

sharing

doubling

halving

array

number patterns

Fractions

fraction

equal part

equal grouping

equal sharing

parts of a whole

half

one of two equal parts

quarter

one of four equal parts

MEASUREMENT

measure

measurement

size

compare

guess, estimate

enough, not enough

too much, too little

too many, too few

nearly, close to, about the same as

roughly

just over, just under

Length

centimetre, metre

length, height, width, depth

long, short, tall

high, low

wide, narrow

thick, thin

longer, shorter, taller, higher ... and so on

longest, shortest, tallest, highest ... and so on

far, near, close

ruler

metre stick

Weight

kilogram, half kilogram

weigh, weighs, balances

heavy, light

heavier than, lighter than

heaviest, lightest

scales

exact, exactly
too many, too few
enough, not enough
round, nearest, round to the nearest ten,
hundred
round up, round down

Addition and subtraction

addition
add, more, and
make, sum, total
altogether
double
near double
half, halve
one more, two more ... ten more ... one
hundred more
how many more to make ...?
how many more is ... than ...?
how much more is ...?
subtract
take away
how many are left/left over?
how many have gone?
one less, two less, ten less ... one hundred
less
how many fewer is ... than ...?
how much less is ...?
difference between
equals
is the same as
number bonds/pairs/facts
missing number
tens boundary, **hundreds boundary**

Multiplication and division

multiplication
multiply
multiplied by

multiple, **factor**
groups of
times
product
once, twice, three times ... ten times
repeated addition
division
dividing, divide, divided by, divided into
left, left over, **remainder**
grouping
sharing, share, share equally
one each, two each, three each ... ten each
group in pairs, threes ... tens
equal groups of
doubling
halving
array
row, column
number patterns
multiplication table
multiplication fact, division fact

Fractions

fraction
equivalent fraction
mixed number
numerator, denominator
equal part
equal grouping
equal sharing
parts of a whole
half, two halves
one of two equal parts
quarter, two quarters, three quarters
one of four equal parts
one third, two thirds
one of three equal parts
sixths, sevenths, eighths, tenths ...

inverse
square, squared
cube, cubed

Fractions (including decimals and percentages)

fraction, **proper/improper fraction**
equivalent fraction
mixed number
numerator, denominator
equivalent, reduced to, cancel
equal part
equal grouping
equal sharing
parts of a whole
half, two halves
one of two equal parts
quarter, two quarters, three quarters
one of four equal parts
one third, two thirds
one of three equal parts
sixths, sevenths, eighths, tenths ...
hundredths, **thousandths**
decimal, decimal fraction, decimal point,
decimal place, decimal equivalent
proportion, **in every, for every**
percentage, per cent, %

MEASUREMENT

measure
measurement
size
compare
unit, standard unit
metric unit, **imperial unit**
measuring scale, division
guess, estimate
enough, not enough
too much, too little

too many, too few
nearly, close to, about the same as,
approximately
roughly
just over, just under

Length

millimetre, centimetre, metre, kilometre, mile
length, height, width, depth, breadth
long, short, tall
high, low
wide, narrow
thick, thin
longer, shorter, taller, higher ... and so on
longest, shortest, tallest, highest ... and so on
far, further, furthest, near, close
distance apart ... between ... to ... from
edge, perimeter
area, covers
square centimetre (cm²), **square metre (m²),**
square millimetre (mm²)
ruler
metre stick, tape measure

Weight

mass: big, bigger, small, smaller
weight: heavy/light, heavier/lighter, heaviest/
lightest
kilogram, half kilogram, gram
weigh, weighs, balances
heavy, light
heavier than, lighter than
heaviest, lightest
scales

Capacity and volume

litre, half litre, millilitre
capacity

Be positive about maths

- Make maths fun
- Give lots of praise and encouragement
- Talk to your child and ask them to explain their thinking
- Maths is all around us. Notice it and make links to everyday life

Online

www.ictgames.com

www.kidsmathsgamesonline.com

www.bbc.co.uk

www.topmarks.co.uk