

Year 2 Maths Packs

Welcome

Ms Yip

Aim

Demonstrate activities you can do with the equipment in relation to the maths curriculum

Participate and try some of the activities

Opportunity to observe how the equipment is used in class by the children

Books

Maths on the Go by Rob Eastaway and Mike Askew

Maths for mums and dads by Rob Eastaway and Mike Askew

Mental warm up

Fizz Buzz (3 and 5 times table)



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Multiplication, division and equals language swatches

These are used to ensure your child understands all the different vocabulary associated with multiplication, division and equals.

Please ensure a mixture of vocabulary is used during your activities.

Use different vocabulary for word problems.

Multiplication as lots of, groups, arrays, times, sets.

Division as sharing, grouping.

Move symbols around when using with vocabulary swatch i.e. $_ = _ + _$

Number line 0 to 100

Count on and back in 10s from any given number

Jump on or back the number line to count in tens and find 10 more or 10 less

What number comes between 2 'tens' numbers

Estimate and position numbers on the number line

Find a number and round up/down to the nearest 10 (round up numbers ending in 5, 6, 7, 8, 9)

Use an empty number line to add/subtract 1 digit and 2 digit numbers by adding/subtracting 1s and 10s

Use an empty number line for repeat addition (multiplication) after using cubes

Use an empty number line for repeat subtraction (division) after using cubes



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1-100 square

Cover (screen) some numbers and reveal, how did you know? Explain.

Find a number up to 100

Recognise and identify the place value of each digit in a two digit number (10s, 1s) How many 10s? How many ones?

Count on and back in 1s, 2s, 3s and 5s from 0

Count on in 10s and back by moving up and down the number square (multiples of 10) from any number

Round a number up/down to the nearest 10

Find number patterns in the number square e.g. odd and even

Add 2 digit numbers by counting on in 1s and 10s

Subtract 2 digit numbers by counting back in 1s and 10s

Choose two numbers and compare using < (less than) and > (more/greater than) signs



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1-100 number cards

Choose number cards and write corresponding numerals in words

Choose 2 number cards and say which is larger and which is smaller, using the $<$ (less than/fewer) and $>$ (more/greater than) signs to compare the two numbers. E.g. $13 < 25$, $47 > 39$.

Order a set of numbers from smallest to largest or largest to smallest in different directions i.e. horizontally and vertically

Show some number cards in order and remove some cards, what numbers are missing?; find number cards in the pattern of 1s, 2s, 3s, 5s or 10s

Choose 2 number cards to add and subtract (Use with bar model, empty number line and number square)

Find doubles, halves, quarters, thirds and three quarters of a given number

Find two numbers that equal 20

100 bead string

Use the two different colour beads to separate beads into two parts and ask for number bonds to 100 e.g. $20 + 80 = 100$

Using only 20 beads, separate beads into two parts and ask for number bonds to 20 e.g. $14 + 6 = 20$, then find corresponding subtraction facts

Use bead string together with number cards to add and subtract 1 and 2 digit numbers by counting on/back in 1s and 10s



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A4 whiteboard and pen

Create a number bingo board by writing 4 – 6 numbers (in numerals and words) and cross off as you say the number names, 1/10 more/less than, total, fraction of numbers($\frac{1}{3}$, $\frac{1}{4}$, $\frac{2}{4}$, $\frac{3}{4}$, $\frac{1}{2}$)

Practise forming different numbers (in numerals and in words)

Describe different 2D and 3D shapes using the features for them to draw

Draw lines of symmetry on 2D shapes

Write addition and subtraction number sentences to calculate including 2 digit and 1 digit, 2 digit and tens, two 2 digit and three 1 digit numbers using empty number line and bar model to illustrate workings out

Write number facts for totals up to 10/20 and derive related facts to 100 e.g. $3+7=10$, $10-7=3$, $30+70=100$

Show workings out! E.g. Steps in calculation, drawings, empty number lines, bar models to illustrate word problems

Write number patterns counting in steps of 1, 2, 3, 5 and 10

Record multiplication and division facts for the 2, 5, and 10 multiplication tables using \times / and $=$ signs and use bar model, empty number lines and arrays to show workings out

Continue/draw a shape pattern and describe



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Arrow cards (Place value cards)

Make 2 and 3 digit numbers (hundreds, tens and ones)

Make 2 and 3 digit numbers then partition to show how many hundreds, tens and ones/units, then draw using Diennes

Make two numbers and add (add 1s then 10s and combine); layout in two columns

Double digit number fan

Show answers to addition and subtraction calculations

*Show doubles and halves of a given number, fraction of a given number
count to check*

Double and half penguins (To make)

Show one side of the penguin and ask what is double? What is half? Then turn over to check

Quick recall of doubles and halves (Extend to doubling larger numbers using known facts)

Use double facts to calculate near doubles



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10 Frame

Count in 2s, 5s and 10s with coins

Number bonds to 10/20

Multiplication with bar model

20 sided dice

Roll twice to generate addition and subtraction calculations (Can they use number facts?)

Roll 3 times to add 3 numbers

Roll a number and find double, half or quarter of that number

Design their own board games or play a board game by counting on and back

Estimate how many times they might throw a 5 in 10 throws

Investigate adding 2 numbers on opposite sides

30cm ruler

Measure different objects in cm and order objects from shortest to longest (remember to start at 0)

Measure different lengths of lines

Draw different lengths of lines

Estimate, compare and order lengths

Investigate which object /line is the longest

Use as a number line



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Money dice

Find me 2p etc. (coin recognition)

Roll dice twice to find total by adding and to find change by subtracting

Roll 3-4 times to find total

Roll dice and draw coins to make that amount (find different combinations)

Clock board/ Capacity board

Understand the different hands on the clock (short – hour, long – minute)

Play what time is it? To tell different o'clock, half past, quarter past, quarter to and 5 minute interval times

Write digital time to match analogue time on clock face

Draw different o'clock, half past, quarter past, quarter to and 5 minute interval times on analogue and digital clocks

Show a time and ask for 1 hour before/1 hour later

Time problems e.g. how many hours until..

Mark scales on measuring jug in ml or in l for your child to continue (1s, 2s, 3s, 5s, 10s, 100s)

Colour in part of the jug and ask how much more is needed to fill the jug?



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Weighing/ Bar chart

Mark some of the scales and your child continue (1s, 2s, 3s, 5s, 10s, 100s)
Mark scales in different units and draw arrow pointing to different marking to read the scale

Collect data on family's favourite colour, food etc. and compile block graph (1s, 2s, 5s, 10s), horizontal and vertical

Answer questions using the information in the block graph to interpret e.g. How many? Difference? How many more/less, most/least?

Fraction pie

Draw round circle and find half and quarter (fold)

Draw round circle and find $\frac{1}{2}$, $\frac{1}{3}$, $\frac{1}{4}$, $\frac{2}{4}$, $\frac{3}{4}$ of a shape

Use fraction pie to find equivalent fractions e.g. $\frac{2}{4} = \frac{1}{2}$

Extend to finding $\frac{1}{2}$, $\frac{1}{3}$, $\frac{1}{4}$, $\frac{2}{4}$, $\frac{3}{4}$ of a number

Right angle sheet

Use corner of sheet to find objects with right angles around the house

Relate to quarter turns, half and three quarter turns

