Subject: Maths

Theme: Overview

Oakgrove School - Curriculum Matrix

Year 2

Place Value
- Know number bonds to 20
- Recall addition and subtraction facts to 20 fluently (know fact families)
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Place Value
- Count to 100.
- Read and write numbers to 100 in numerals and words
- Partition 2-digit numbers into tens and ones.
- Recognise the place value of each digit in a two-digit number.

Addition and Subtraction
- Add a two-digit number and ones
- Add numbers using pictorial representations.

Addition and Subtraction
- Subtract mentally
- Subtract numbers using concrete objects
- Subtract a one-digit number from a two-digit number using a pictorial representation (drawing diennes)

Fractions
- Identify fractions from a coloured diagram
- Write a fraction using a numerator and a denominator.
- Colour a fraction on a shape
- Recognise that for fraction parts, the pieces must be the same size.

Measures – Time
- Know o'clock and half past times on a clock
- Know quarter past the hour on a clock
- Know quarter to the hour on a clock
- Tell the time using a clock
- Draw hands on a clock to show quarter past and quarter to

Addition and Subtraction
- Add one-digit numbers to two-digit numbers
- Count in 10s from any number
- Add mentally a two-digit number and 10
- Add mentally a two-digit number and 10s

Addition and Subtraction
- Subtract a one-digit number from a two-digit number
- Count back in 10s from any number
- Subtract mentally a two-digit number and 10
- Subtract mentally a two-digit number and 10s

Multiplication and Division
- Multiply by 2 using concrete resources and pictorial representations.
- Multiply by 2 using a number line
- Multiply by 5, showing counting in 5s on a number line.
- Multiply by 10 showing counting in 10s on a number line.
- Solve multiplication problems with 2, 5 and 10

Multiplication and Division
- Divide by 2 using concrete and pictorial representations.
- Divide by 2 by drawing dashes and grouping in 2s
- Divide by 5 by drawing dashes and grouping in 5s
- Solve division problems with 2, 5 and 10

Fractions
- Find half of a number by dividing objects into two hoops.
- Find a quarter and a third of a number by dividing objects into 4 and 3 hoops respectively
- Find half, a third and a quarter by drawing dashes in hoops
- Solve practical fractions problems

Shape
- Recognise properties of 2d shapes – sides, vertices, straight and curved sides
- Recognise symmetry in 2d shapes
- Recognise properties of 3d shapes -faces, edges, vertices, curved faces
- Sort shapes according to properties

Addition and Subtraction
- Add two two-digit numbers by drawing diennes
- Add two two-digit numbers using partitioning (expanded column method)

Addition and Subtraction
- Subtract a two-digit number from a two-digit number using diennes
- Subtract a two-digit number from a two-digit number by drawing diennes (no exchange)
- Subtract a two-digit number from a two-digit number drawing diennes with exchange

Measures – Money
- Recognise coins and use £ and p as symbols for money
- Find different combinations of coins that equal the same amount of money
- Solve simple addition and subtraction of money problems.

Measures
- Know that mass is measured in g and kg
- Read scales in 2s, 5s and 10s
- Know that capacity is measured in l and ml
- Know that temperature is measured in degrees Celsius
- Know that length is measured in cm and m
- Use a ruler to measure length in cm

Measures
- Measure mass in g and kg
- Measure capacity in ml and l

Addition and Subtraction
- Know that addition and subtraction are inverses
- Recognise and use the inverse relationship between addition and subtraction and use this to solve missing number problems where the operation is addition
- Recognise and use the inverse relationship between addition and subtraction and use this to solve missing number problems where the operation is subtraction and addition can be used to find the answer

Addition, Subtraction, Multiplication and Division
- Recognise the language of addition word problems
- Solve addition word problems
- Recognise the language of Subtraction word problems
- Solve Subtraction word problems
- Recognise the language of multiplication word problems
- Solve multiplication word problems
- Recognise the language of Division word problems
- Solve division word problems

Addition, Subtraction, Multiplication and Division
- Decide the operation needed to solve addition, subtraction, multiplicaion and division word problems.
- Solve fraction word problems

Measures – Time
- Know the time to 5 minutes past the hour
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Measures - Time
- Know the time to 5 minutes to the hour

Place Value
- Know odd and even numbers to 100
- Know and use <, > and = to compare two-digit numbers

Geometry / Fractions
- Recognise clockwise and anticlockwise turns
- Recognise half and quarter turns.
- Know that ½ is equivalent to 2/4

Addition and Subtraction
- Read and write numbers from 100 to 120
- Add a single digit number to a number greater than 90.
- Subtract from 100.
- Find change from £1

Fluency
- Recall the vocabulary which identifies the operation in a word problem.
- Recall the use of visual methods to make decisions about the operation to use in a word problem.
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Fluency
- Match word problems with visual representations for the four operations.
- Recall strategies for determining the calculations needed in a one-step problem.

Fluency
- Recall strategies for determining the calculation needed in a two-step word problem.
- Count up in 2s, 3s and 5s from any given number (not necessarily a number from the multiplication table.

Fractions
- Place fractions on a number line
- Identify missing fractions on a number line (always using the same denominator for one number line)
- Count in fraction steps, using the same denominator. Eg. One quarter, two quarters, three quarters, four quarters (and four quarters is one whole).

Number and Place Value
- Continue repeating patterns of colours and shapes.
- Continue repeating patterns of numbers.
- Recognise whether a number sequence is increasing or decreasing
- Identify patterns on a 100 square or number line.

Multiplication and Division
- Count quickly in 2s, 3s, 5s and 10s to 12x
- Rapid recall multiplication facts for 2x, 3x, 5x and 10x.

Multiplication and Division
- Rapid recall division facts for 2s, 3s, 5s, and 10s.
- Recognise that 40 ÷ 5 is 8, this also means that 40 ÷ 8 = 5.

STATISTICS:

Construct and interpret pictograms where pictures represent 1 and 2 units (Materials Aut.2)

Construct and interpret tally charts and use these to construct block diagrams (Animal biology Spr.2 – Data from bug hotels)

Construct and interpret tables (Effect of exercise on the body Spr.1)

Ask and answer simple questions by counting and sorting

Ask and answer simple questions about totalling and comparing data

COMPUTING: Construct and interpret pictograms, block diagrams and bar charts where the y-axis is labelled in 1s or 2s.