## Branfil <br> Primary School

## Welcome to the Year 2 Maths Workshop


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## In this workshop we will:

- Discuss the Year 2 maths curriculum
- Schemes of work - White Rose and Power Maths
- How we teach maths in Year 2
o Resources and manipulatives we can recommend
o Ways to support your child at home
o TTRS
o Give you a chance to practice the activities with your children


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## Year 2 Maths Curriculum - Towards expected

## Working towards the expected standard

The pupil can:

- read and write numbers in numerals up to 100
- partition a two-digit number into tens and ones to demonstrate an understanding of place value, though they may use structured resources ${ }^{1}$ to support them
- add and subtract two-digit numbers and ones, and two-digit numbers and tens, where no regrouping is required, explaining their method verbally, in pictures or using apparatus (e.g. $23+5 ; 46+20 ; 16-5 ; 88-30$ )
- recall at least four of the six ${ }^{2}$ number bonds for 10 and reason about associated facts (e.g. $6+4=10$, therefore $4+6=10$ and $10-6=4$ )
- count in twos, fives and tens from 0 and use this to solve problems
- know the value of different coins
- name some common 2-D and 3-D shapes from a group of shapes or from pictures of the shapes and describe some of their properties (e.g. triangles, rectangles, squares, circles, cuboids, cubes, pyramids and spheres).


## Year 2 Maths Curriculum - Age Related

## Working at the expected standard

The pupil can:

- read scales* in divisions of ones, twos, fives and tens
- partition any two-digit number into different combinations of tens and ones, explaining their thinking verbally, in pictures or using apparatus
- add and subtract any 2 two-digit numbers using an efficient strategy, explaining their method verbally, in pictures or using apparatus (e.g. $48+35 ; 72-17$ )
- recall all number bonds to and within 10 and use these to reason with and calculate bonds to and within 20 , recognising other associated additive relationships (e.g. If 7 $+3=10$, then $17+3=20$; if $7-3=4$, then $17-3=14$; leading to if $14+3=17$, then $3+14=17,17-14=3$ and $17-3=14$ )
- recall multiplication and division facts for 2,5 and 10 and use them to solve simple problems, demonstrating an understanding of commutativity as necessary
- identify $\frac{1}{4}, \frac{1}{3}, \frac{1}{2}, \frac{2}{4}, \frac{3}{4}$ of a number or shape, and know that all parts must be equal parts of the whole
- use different coins to make the same amount
- read the time on a clock to the nearest 15 minutes
- name and describe properties of 2-D and 3-D shapes, including number of sides, vertices, edges, faces and lines of symmetry.


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## Year 2 Maths Curriculum - Greater Depth

## Working at greater depth

The pupil can:

- read scales* where not all numbers on the scale are given and estimate points in between
- recall and use multiplication and division facts for 2,5 and 10 and make deductions outside known multiplication facts
- use reasoning about numbers and relationships to solve more complex problems and explain their thinking (e.g. $29+17=15+4+\square$; 'together Jack and Sam have $£ 14$. Jack has $£ 2$ more than Sam. How much money does Sam have?' etc.)
- solve unfamiliar word problems that involve more than one step (e.g. 'which has the most biscuits, 4 packets of biscuits with 5 in each packet or 3 packets of biscuits with 10 in each packet?')
- read the time on a clock to the nearest 5 minutes
- describe similarities and differences of 2-D and 3-D shapes, using their properties (e.g. that two different 2-D shapes both have only one line of symmetry; that a cube and a cuboid have the same number of edges, faces and vertices, but different dimensions).


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## Maths Scheme - White Rose

We follow schemes of work from year 1 onwards, such as White Rose Maths and Power Maths. We use a selection of statements, questions and ideas from these schemes to help us plan engaging, exciting lessons for your children. As well as that, we add additional challenges and more concrete resources for practice.
https://whiterosemaths.com/

## Branfil PrimarySchool <br> Maths in Year 2

When working with children we introduce them to different concrete resources (the resources on the tables) then we move them onto pictorial ways of working, such as recording in a pictorial way and then abstract, for example writing a numbers.

## Branfil's School Calculation policy



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## Branfil's School Calculation policy



# Branfil Primary School 

## Branfil's School Calculation policy

| Skill | Year | Representations and models |  |
| :---: | :---: | :---: | :---: |
| Recall and use <br> multiplication and <br> division facts for the <br> 2-times table | 2 | Bar model <br> Number shapes <br> Counters | Ten frames <br> Recall and use <br> multiplication and <br> division facts for the <br> 5-times table |
|  |  | Money | Number lines |
| Everyday objects |  |  |  |
| Recall and use |  | Bar model | Ten frames |
| multiplication and | 2 | Counters | Bead strings |
| division facts for the | 2 | Money | Number lines |
| 10-times table |  | Hundred square | Everyday objects |

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## Branfil's School Calculation policy



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## What does a Maths lesson look like in

Year 2?
Flashback 4!

1) What is the mass of the object?

Year 2 | Week 10 | Day 4

2) The mass of the cookie is $\square$ $g$.

3) How long is the line?

4) Draw money to show $£ 7$

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## What does a Maths lesson look like in Year 2?

L.O to use our knowledge of the four operations to answer questions about mass



Drow an arrow to shaw the mass of the cat.
(5) The sattrase is 17 ky heovier than the boce,


Drow on crrow to shaw the mass of the suitrose.

## What does a Maths lesson look like in Year



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## Resources and manipulatives we

 recommend:- Multilink
- Number track
- Counters
- Dice
- Rulers
- Number lines
- Numicon
- Flashcards
- songs



# Branfil Primary School How to support your child at home: 

- Play times tables games - TTRS (more on the next slide...)
- Play mental maths games including counting in different amounts, forwards and backwards.
- Encourage opportunities for telling the time.
- Encourage opportunities for counting coins and money; finding amounts or calculating change when shopping.
- Look for examples of 2D and 3D shapes around the home.
- Identify, weigh or measure quantities and amounts in the kitchen or in recipes.
- Play games involving numbers or logic, such as dominoes or card games.


## Branfil PrimarySchool TTRS - Times table rockstars!

```
7th March - 10th March 2023
```

```
2 Holly 2 Cedar 2 Beech
```

14th March - 17th March 2023
2 Holly 2 Cedar 2 Beech

21st March - 24th March 2023
2 Holly 2 Cedar 2 Beech



## Now to put this in practice!



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Can you complete these questions together...
$22+22=$
$30+$ ? $=100$
? = 19-5
17-5 =
20 divided by $5=$
$34+33=$
$64+12=$
$10+20+30=$
How many tens in:

- 12
- 24
$5 \times 2=$
- 33

Now practice counting your $2 \mathrm{~s}, 5 \mathrm{~s}$ and 10 s

## Thank you

All of the slides will be uploaded to both the school website and Google Classroom.

Year Two Team

