# The Flourish Federation—Knowledge Organiser

## Brookfield Infant and Junior Schools

| Subject Focus: | Maths | Year 1 - Term 1 & 3 | Place Value |
|---|---|---|---|

## What? (Key Knowledge)

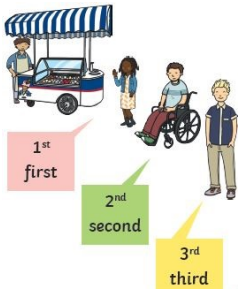
| |
|---|
| Count to and across 100, forwards and backwards beginning with 0 or 1, from any given number. |
| Count, read, write numbers to 100 in numerals. |
| Count in multiples of 2, 5 and 10. |
| Given a number, identify 1 more and 1 less. |
| Identify and represent numbers using objects and pictorial representations including the number line and use of language of: equal to, more than, less than (fewer), most, least. |
| Read and write numbers from 1 to 20 in words. |
| Identify odd and even numbers between 1 and 10 |

## What? (Key Vocabulary)

| Vocabulary | Comments |
|---|---|
| Equal to | Show equal symbol alongside use of vocab. Ensure to explain it means things are balanced (not just the answer) |
| More than/Greater than/most | Ensure to use all |
| Less than/fewer | Ensure to use both |
| Order | Order both smallest to biggest and biggest to smallest. (Groups of objects and numbers). |
| 1st, 2nd, 3rd | Positional/ordinal language |
| Compare | Use many different representations to compare (see diagrams). |

## Visuals/Diagrams

### Term 1 = Place Value up to and within 10




**Ordering**

Order the number cards from smallest to greatest.



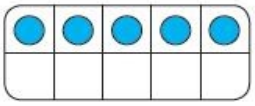

- _____ is the greatest number.
- _____ is the smallest number.
- _____ is greater than _____
- _____ is smaller than _____

**Comparing**



5 = 5

equals





**4 is less than 7**

**4 is fewer than 7**

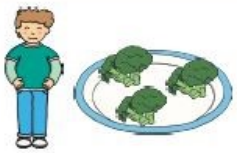




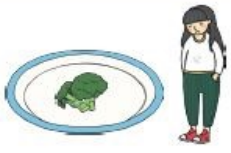
**8 is more than 2**

**8 is greater than 2**

**two**



Lewis has the **most**.



Olive has the **fewest**.

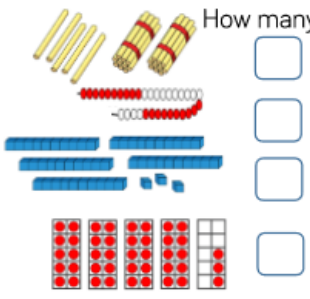
### Term 3 = Place Value up to 50

It's very important that children see lots of different visual representations of numbers beyond 10.

There will be lots of talk around how many tens and ones in each number.

Match the pictures and words.

- Four tens and three ones
- Two tens and five ones
- Three tens and four ones
- Three ones and five tens




Four tens = 40 three ones = 3 —> 43

# Examples of Reasoning

Whitney says,



When counting forwards, we always count from 0

Do you agree?
Explain why.

Whitney is wrong, we can start counting forwards from any number.

Circle all the numbers from the track that **cannot** go in the box. Explain why.

$6 < \square$

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|

6, 5, 4, 3, 2, 1 because 6 < means '6 is less than', so the other number needs to be greater than 6

True or False?

One more than 7 is the same as 1 less than 9

Use a number track to help you.

Can you think of another statement like this?

It is true because one more than 7 is 8, and one less than 9 is also 8

Other example could be: 1 more than 5 and 1 less than 7 are the same.

One of these statements is incorrect.
Use cubes to prove which one.

$8 > 4$

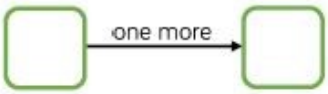
$7 < 10$

$3 > 6$

3 > 6 is incorrect.

# Examples of Problem Solving

Using number cards 0 to 10, how many different ways can you complete the boxes below?




Look to see if children are working systematically, e.g. 1 and 0, then 2 and 1 etc.

Jack has 6 sunflowers.
Rosie has more sunflowers than Jack.
Amir has more sunflowers than Rosie.

Who has the least amount of sunflowers?

Jack has the least amount of sunflowers.

Two children have used the instructions to make a pattern.

There are four shapes.

The first is a circle.

The last is a square.

The other two shapes are a triangle and a rectangle.

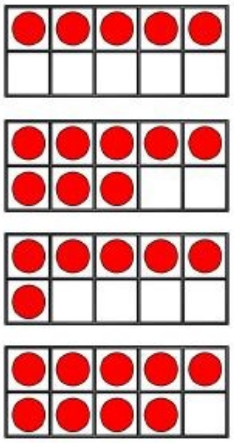
Here are their patterns.

Amir 

Dora 

Who is correct?

Move **three** counters so that all the ten frames show the **same** amount.



Create your own problem like this.

# ICT Opportunities

<u>Purple Mash:</u>

- Place Value Games
- More than/less than Games

<u>Education City:</u>

- Maths/KS1/Number and Place Value (many games)
- Videos, tutorials, a range of activities and games

<u>Manga High:</u>

- A wealth of games, activities and competitions

# Daily Maths

- Questioning during the register (How many people are absent? How many children are here? How many more children have school dinners than packed lunch).
- Lining up games - counting on/back, 2x, 5x and 10x table games
- Days of the week/months of the year