

The Flourish Federation—Knowledge Organiser

Brookfield Infant and Junior Schools



Subject Focus:

Maths

Year 2 - Term 1

Place Value

What? (Key Knowledge)

Count in steps of 2, 3 and 5 from 0, and in tens from any number, forward and backward.

Recognise the place value of each digit in a two-digit number (tens and ones)

Identify, represent and estimate number using different representations, including the number line.

Compare and order numbers from 0 up to 100; use $<$ $>$ and $=$ signs.

Read and write numbers to at least 100 in numerals and words.

Use place value and number facts to solve problems.

What? (Key Vocabulary)

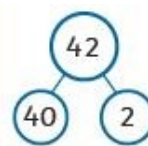
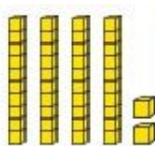
Vocab	Comments
Equal to	Show equal symbol alongside use of vocab. Ensure to explain it means things are balanced (not just the answer)
More than/ Greater than/ most	Ensure to use all
Less than/fewer	Ensure to use both
Hundreds, Ten, Ones	The value of a digit
Partition	How a number can be divided (H, T, O)
Digit	Any numeral from 0-9, even when part of a 2-digit number.
Representation	A maths picture (dots, lines, crosses, circles) which represent a real image.

Visuals/Diagrams

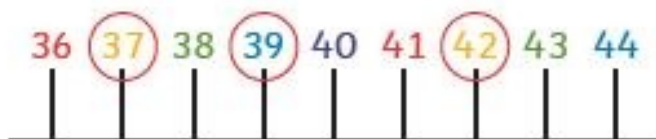
42

forty-two

four tens
two ones



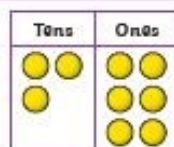
Order Numbers



$$37 < 39 < 42$$

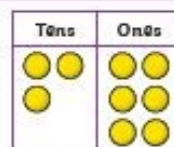


Compare Numbers



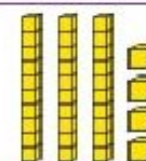
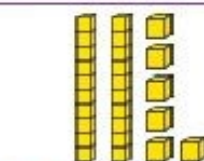
$$36 = 36$$

equals



$$26 < 34$$

less than



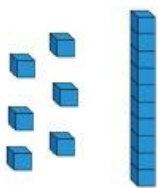
$$24 > 19$$

greater than



Examples of Reasoning

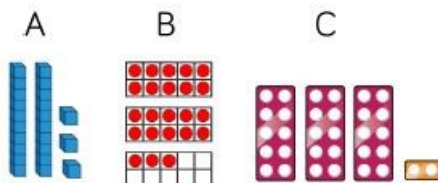
Jack says he has 61
Is he correct?



Explain your reasoning.

Jack is incorrect.
He has 16 not 61

One of these images **does not** show 23
Can you explain the mistake?



C does not show
23, it shows 32
They have
reversed the tens
and ones.

How many different numbers can go in
the box?

$$13 < \square < 20$$

There are six
different numbers:
14, 15, 16, 17, 18, 19

Teddy and Whitney are both counting
from zero to twenty.

- Teddy is counting in 2s.
- Whitney is counting in 5s.

Will they say any of the same numbers?
What do you notice about your answer?

Yes they will both
say 10 and 20

The numbers that
are the same are
the tens.

Examples of Problem Solving

How many two digit numbers can you
make using the digit cards?



What is the largest number?
Prove it by using concrete resources.

What is the smallest number?
Prove it by using concrete resources.

Why can't the 0 be used as a tens
number?

70, 20, 72, 27

The largest
number is 72

The smallest
number is 20

Because it would
make a 1 digit
number.

Mo has written a list of 2-digit numbers.

14, 23, 32, 41



The digits of each number
add up to five.
None of the digits are zero.

Can you find all the numbers Mo could
have written?

Write the numbers in order from smallest
to largest.

What strategy did you use?

ICT Opportunities

Purple Mash:

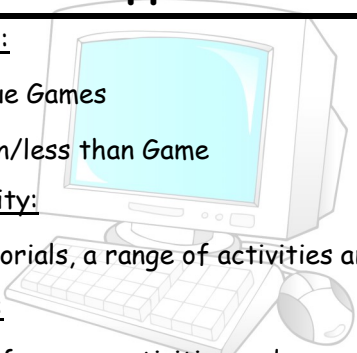
- Place Value Games
- More than/less than Game

Education City:

- Videos, tutorials, a range of activities and games

Manga High:

- 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, 3x, 5x and 10x table games
- Days of the week/months of the year

